

LBT-D390/D790/G5500/XB33/ XB44/XB50/XB60

SERVICE MANUAL

US Model

LBT-D390/D790/G5500

Canadian Model

LBT-D390/D790

AEP Model

UK Model

LBT-XB50/XB60

E Model

Australian Model

LBT-XB33/XB44

- LBT-D390/D790/G5500/XB33/XB44/XB50/XB60 are composed of following models.

As for the service manual, it is issued for each component model, then, please refer to it.

COMPONENT MODEL NAME FOR LBT-D390/D790/G5500/ XB33/XB44/XB50/XB60

	COMPACT DISC/DECK/ RECEIVER SYSTEM	SPEAKER SYSTEM
LBT-D390	HCD-D390	
LBT-D790	HCD-D790	
LBT-G5500	HCD-G5500	
LBT-XB33	HCD-XB33	SS-XB33 (except Mexican model)
LBT-XB44	HCD-XB44	SS-XB44 (except Mexican,Brazilian model)
LBT-XB50	HCD-XB50	
LBT-XB60	HCD-XB60	

SPECIFICATIONS

General

Power requirements

North American model: 120 V AC, 60 Hz

European model: 230 V AC, 50 / 60 Hz

Mexican model: 120 V AC, 50 / 60 Hz

Australian and South African models:

220 - 240 V AC, 50 / 60 Hz

Thailand model: 220 - 240 V AC, 50 / 60 Hz

Other models: 110 - 120 V or 220 - 240 V AC, 50 / 60 Hz

Ajustable with voltage selector

Power consumption

LBT-D390 / G5500 170 watts

LBT-D790 198 watts

LBT-XB50 190 watts

LBT-XB60 230 watts

LBT-XB33 240 watts

LBT-XB44 250 watts

Dimensions (w / h / d)

Approx. 355 x 425x 435 mm (14 x 16 3/4 x 17 1/4 in) incl. projecting parts and controls

Mass

LBT-D390 / G5500 Approx. 12.5 kg (27 lb 9 oz.)

LBT-D790 / XB50 / XB60 Approx. 13.0 kg (28 lb 11 oz.)

LBT-XB33 / XB44 Approx. 14.0 kg (30 lb 14 oz.)

Supplied accessories

AM loop antenna (1)

Remote RM-SD70S (1)

Size AA (R6) batteries (2)

FM wire antenna (1)

Speaker cords* (2)

* except for LBT-D390/G5500/XB33/XB50

Design and specifications are subject to change without notice.

COMPACT Hi-Fi STEREO SYSTEM



MICROFILM

SONY®

PARTS LIST

Ref. No.	Part No.	Description	Remark
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ACCESSORIES & PACKING MATERIALS

1-475-115-31 COMMANDER, STANDARD (RM-SD70S)
1-501-374-11 ANTENNA, LOOP
1-501-659-41 ANTENNA (FM) (EXCEPT XB50, XB60)
1-501-804-11 ANTENNA (FM) (XB50, XB60)
1-775-512-21 CORD, SPEAKER CONNECTION

3-862-180-11 MANUAL, INSTRUCTION
(made in malaysian : except AEP) (ENGLISH)
3-862-180-22 MANUAL, INSTRUCTION (Canadian)
(FRENCH)
3-862-180-31 MANUAL, INSTRUCTION (E, AR, MX)
(FRENCH, SPANISH)
3-862-180-51 MANUAL, INSTRUCTION (made in malaysian:AEP)
(GERMAN)
3-862-180-61 MANUAL, INSTRUCTION (made in malaysian:AEP)
(DUTCH, SWEDISH, ITALIAN)
3-862-180-71 MANUAL, INSTRUCTION (made in malaysian:AEP)
(FRENCH, PORTUGUESE, SPANISH)
3-862-180-81 MANUAL, INSTRUCTION (EE, CIS)
(RUSSIAN, POLISH)
3-862-181-11 MANUAL, INSTRUCTION (made in indonesia:AEP)
(ENGLISH)
3-862-181-21 MANUAL, INSTRUCTION (made in Indonesia:AEP)
(FRENCH, SPANISH, PORTUGUESE)
4-991-151-01 COVER, BATTERY (for RM-SD70S)

HCD-D390/D790/G5500/ XB33/XB44/XB50/XB60

SERVICE MANUAL

US Model

HCD-D390/D790/G5500

Canadian Model

HCD-390/D790

AEP Model

UK Model

HCD-XB50/XB60

E Model

Australian Model

HCD-XB33/XB44



Photo: HCD-XB44

- HCD-D390/D790/G5500/XB33/XB44/XB50/XB60 is the tuner, deck, CD and amplifier section in LBT-D390/D790/G5500/XB33/XB44/XB50/XB60.

* Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation. "DOLBY" and the double-D symbol  are trademarks of the Dolby Laboratories Licensing Corporation.

CD Section	Model Name Using Similar Mechanism	HCD-D290/G3300/XB3
	CD Mechanism Type	CDM37L-5BD29AL
	Base Unit Name	BU-5BD29AL
	Optical Pick-up Name	KSS-213D/Q-NP
Tape Deck Section	Model Name Using Similar Mechanism	HCD-D290/G3300/XB3
	Tape Transport Mechanism Type	TCM-220WR2

SPECIFICATIONS

For the U.S. model

AUDIO POWER SPECIFICATIONS

POWER OUTPUT AND TOTAL HARMONIC DISTORTION:

With 8 ohm loads, both channels driven, from 70-20,000 Hz; rated 100 watts per channel minimum RMS power, with no more than 0.9 % total harmonic distortion from 250 milliwatts to rated output.

Amplifier section

(HCD-D390/D790/G5500)

Continuous RMS power output:

120 + 120 watts (8 ohms at 1 kHz, 10% THD)

Total harmonics distortion:

Less than 0.07% (8 ohms at 1 kHz, 50 W)

(HCD-XB50)

DIN power output (Rated): 80 + 80 watts (8 ohms at 1 kHz, DIN)

Continuous RMS power output (Reference):

100 + 100 watts (8 ohms at 1 kHz, 10% THD)

Music power output (Reference):

170 + 170 watts (8 ohms at 1 kHz, 10% THD)

(HCD-XB60)

DIN power output (Rated):

100 + 100 watts (8 ohms at 1 kHz, DIN)

Continuous RMS power output (Reference):

120 + 120 watts (8 ohms at 1 kHz, 10% THD)

Music power output (Reference):

210 + 210 watts (8 ohms at 1 kHz, 10% THD)

(HCD-XB33)

The following measured at AC 120/240 V, 50 Hz

DIN power output (Rated):

100 + 100 watts (6 ohms at 1 kHz, DIN)

Continuous RMS power output (Reference):

120 + 120 watts

(6 ohms at 1 kHz, 10% THD)

Peak music power output (Reference):

1,500 watts

(HCD-XB44)

The following measured at AC 120/240 V, 50 Hz

DIN power output (Rated):

120 + 120 watts (6 ohms at 1 kHz, DIN)

Continuous RMS power output (Reference):

140 + 140 watts

(6 ohms at 1 kHz, 10% THD)

Peak music power output (Reference):

2,000 watts

— Continued on next page —

COMPACT DISC DECK RECEIVER



MICROFILM

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Inputs

PHONO IN (phono jacks):	sensitivity 3 mV, impedance 47 kilohms
MIX MIC (phone jack):	sensitivity 1 mV, impedance 10 kilohms
(HCD-D390/D790/G5500)	
VIDEO (AUDIO) IN (phono jacks):	sensitivity 250 mV, impedance 47 kilohms
(HCD-XB33/XB44/XB50/XB60)	
VIDEO/MD (AUDIO) IN (phono jacks):	sensitivity 250 mV, impedance 47 kilohms

Outputs

PHONES (stereo phone jack):	accepts headphones of 8 ohms or more
(HCD-XB33/XB44/XB50/XB60)	
VIDEO/MD (AUDIO) OUT (phono jacks):	voltage 250 mV, impedance 1 kilohm
SPEAKER:	
(HCD-D390/D790/G5500/XB50/XB60)	accepts impedance of 8 to 16 ohms
(HCD-XB33/XB44)	impedance of 6 to 16 ohms
SURROUND SPEAKER:	
(HCD-D790/XB33/XB50/XB60 only)	accepts impedance of 16 ohms

CD player section

System	Compact disc and digital audio system
Laser	Semiconductor laser ($\lambda = 780\text{nm}$).
	Emission
Laser output	duration: continuous
	Max. $44.6\mu\text{W}^*$
	*This output is the value measured at a distance of 200 mm from the objective lens surface on the Optical Pick-up Block with 7 mm aperture.
Wavelength	780 – 790 nm
Frequency response	2 Hz – 20 kHz (± 0.5 dB)
Signal-to-noise ratio	More than 90 dB
Dynamic range	More than 90 dB
(HCD-XB33/XB44/XB50/XB60)	
CD DIGITAL OUT	
(square optical connector jack, rear panel)	
Wave length:	600 nm
Output level:	– 18 dBm

Tape player section

Recording system	4-track 2-channel stereo
Frequency response (DOLBY NR OFF)	60 – 13,000 Hz (± 3 dB), using a Sony
	TYPE I cassette
	60 – 14,000 Hz (± 3 dB), using a Sony
	TYPE II cassette

Tuner section

FM stereo, FM/AM superheterodyne tuner

FM tuner section

Tuning range	
(2 band model)	
North American model::	87.5 - 108.0 MHz (100 kHz step)
Other models:	87.5 - 108.0 MHz (50 kHz step)
(3 band model)	87.5 - 108.0 MHz (50 kHz step)
(4 band model)	87.5 - 108.0 MHz (50 kHz step)
	65.0 - 74.0 MHz (10 kHz step) OIRT
UKV:	65.0 - 74.0 MHz (10 kHz step) POLAR
	STEREO
Antenna	FM wire antenna
Antenna terminals	75 ohm unbalanced
Intermediate frequency	10.7 MHz

AM tuner section

Tuning range	
(2 band model)	
North American model:	530 – 1,710 KHz (with the tuning interval set at 10 kHz)
	531 – 1,710 KHz (with the tuning interval set at 9 kHz)
Other models:	531 – 1,602 kHz
	(with the tuning interval set at 9 kHz)
	530 – 1,710 KHz
	(with the tuning interval set at 10 kHz)
(3 band and 4 band models):	
MW:	531 – 1,602 kHz
	(with the tuning interval set at 9 kHz)
LW:	153 – 279 kHz
	(with the tuning interval set at 3 kHz)
Antenna	AM loop antenna, External antenna terminals
Intermediate frequency	450 kHz

General

Power requirements	
North American model:	120 V AC, 60 Hz
European model:	230 V AC, 50/60 Hz
Mexican model:	120 V AC, 50/60 Hz
Australian and South African models:	220 – 240 V AC, 50/60 Hz
Thailand model::	220 – 240 V AC, 50/60 Hz
Other models:	110 – 120 V or 220 – 240 V
Power consumption	AC, 50/60 Hz Adjustable with voltage selector
(HCD-D390/G5500):	170 watts
(HCD-D790):	198 watts
(HCD-XB50):	190 watts
(HCD-XB60):	230 watts
(HCD-XB33):	240 watts
(HCD-XB44):	250 watts
Dimensions (w/h/d)	Approx. 355 x 425 x 435 mm (14 x 16 3/4 x 17 1/4 in) incl. projecting parts and controls
Mass	
(HCD-D390/G5500):	Approx. 12.5 kg (27 lb 9 oz.)
(HCD-D790/XB50/XB60):	Approx. 13.0 kg (28 lb 11 oz.)
(HCD-XB33/XB44):	Approx. 14.0 kg (30 lb 14 oz.)

Supplied accessories:	AM loop antenna (1)
	Remote RM-SD70S (1)
	Size AA (R6) batteries (2)
	FM wire antenna (1)
	Speaker cords* (2)

* except for HCD-D390/G5500/XB33/XB50

Design and specifications are subject to change without notice.

CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

Notes on chip component replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

Flexible Circuit Board Repairing

- Keep the temperature of soldering iron around 270°C during repairing.
- Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
- Be careful not to apply force on the conductor when soldering or unsoldering.

Laser component in this product is capable of emitting radiation exceeding the limit for Class 1.

CLASS 1 LASER PRODUCT
LUOKAN 1 LASERLAITE
KLASS 1 LASERAPPARAT

This appliance is classified as a CLASS 1 LASER product. The CLASS 1 LASER PRODUCT MARKING is located on the rear exterior.

The following caution label is located inside the unit.

**SAFETY-RELATED COMPONENT WARNING!!**

COMPONENTS IDENTIFIED BY MARK \triangle OR DOTTED LINE WITH MARK \triangle ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety checks before releasing the set to the customer: Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microamperes). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable. (See Fig. A)

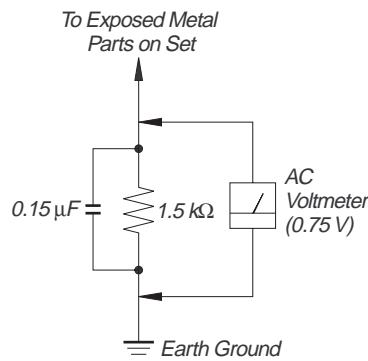


Fig. A. Using an AC voltmeter to check AC leakage.

**ATTENTION AU COMPOSANT AYANT RAPPORT
À LA SÉCURITÉ!**

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE \triangle SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPÉMENTS PUBLIÉS PAR SONY.

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SERVICING NOTES

NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT

The laser diode in the optical pick-up block may suffer electrostatic break-down because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body. During repair, pay attention to electrostatic break-down and also use the procedure in the printed matter which is included in the repair parts.

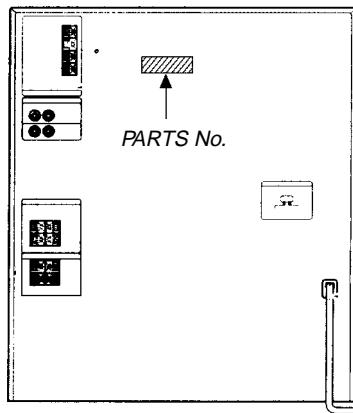
The flexible board is easily damaged and should be handled with care.

NOTES ON LASER DIODE EMISSION CHECK

The laser beam on this model is concentrated so as to be focused on the disc reflective surface by the objective lens in the optical pick-up block. Therefore, when checking the laser diode emission, observe from more than 30 cm away from the objective lens.

MODEL IDENTIFICATION

– BACK PANEL –

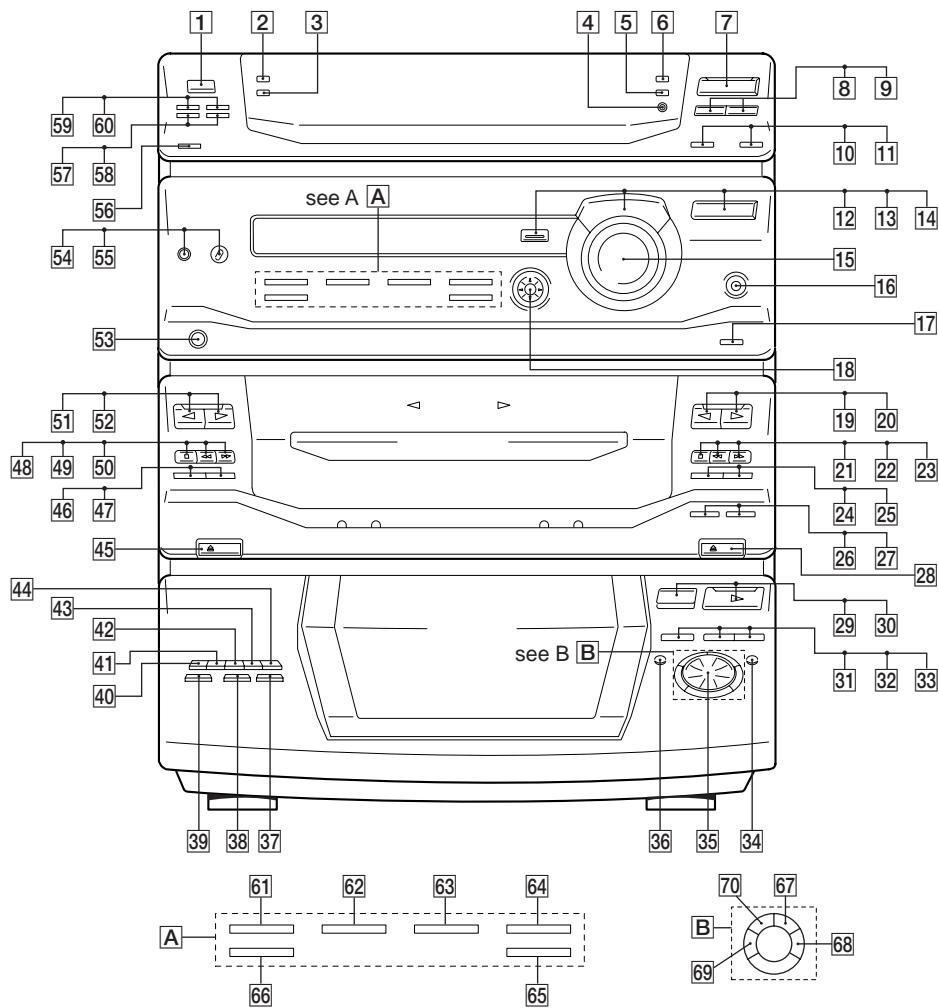


MODEL	PARTS No.
XB33:E,Argentine models	4-996-410-0□
XB33:Mexican model	4-996-410-2□
XB33:Australian model	4-996-410-3□
XB33:South African model	4-996-410-4□
D390:US model	4-996-411-0□
D390:Canadian model	4-996-411-1□
XB50:AEP,UK models	4-996-411-2□
XB50:East European,CIS models	4-996-411-3□
G5500	4-996-411-4□
XB44:E,Argentine models	4-996-412-0□
XB44:Mexican model	4-996-412-2□
XB44:Australian model	4-996-412-3□
XB44:South African model	4-996-412-4□
D790:US model	4-996-419-0□
D790:Canadian model	4-996-419-1□
XB60:AEP,UK models	4-996-419-2□
XB60:East European,CIS models	4-996-419-3□

SECTION 1

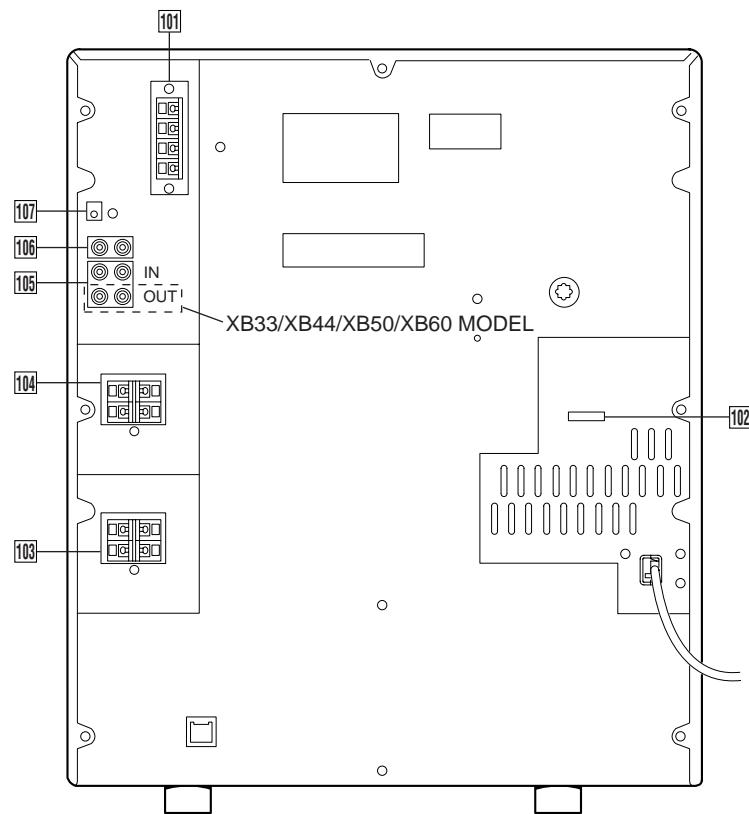
GENERAL

— FRONT PANEL —



1	POWER button	24	DECK B ■ (pause) button	48	DECK A ■ (stop) button
2	DISPLAY/DEMO button	25	DECK B ● REC button	49	DECK A ◀◀ (backward) button
3	SPECTRUM ANALYZER button	26	H SPEED DUB button	50	DECK A ▶▶ (forward) button
4	ENTER/NEXT button	27	CD SYNC button	51	DECK A ◀ (play) button
5	TUNER MEMORY button	28	DECK B ▲ EJECT button	52	DECK A ▶ (play) button
6	TUNING MODE button	29	CD ▲ OPEN button	53	PHONES jack
7	TUNER/BAND button	30	CD ▶ (play) button	54	MIC jack
8	TUNING – button	31	DISK SKIP button	55	MIC LEVEL knob
9	TUNING + button	32	CD ■ (stop) button	56	SLEEP button
10	PTY button (AEP, UK model)	33	CD ▶▶ (forward) button	57	DAILY 1 button
11	STEREO/MONO button	34	◀◀ AMS ▶▶ knob	58	DAILY 2 button
12	EFFECT button	35	CD ◀◀ (backward) button	59	⌚ / CLOCK SET button
13	GROOVE button	36	FLASH button	60	REC button
14	FUNCTION button	37	LOOP button	61	WAVE button
15	VOLUME knob	38	NON-STOP button	62	SURROUND button
16	SUPER WOOFER button	39	DISC 1 button	63	P FILE MEMORY button
17	SUPER W MODE (D790/XB44/XB60 model)	40	DISC 2 button	64	GEQ CONTROL button
18	GEQ button	41	DISC 3 button	65	ENTER button
19	DECK B ◀ (play) button	42	DISC 4 button	66	KARAOKE PON/MPX button
20	DECK B ▶ (play) button	43	DISC 5 button	67	PLAY MODE button
21	DECK B ■ (stop) button	44	DECK A ▲ EJECT button	68	REPEAT button
22	DECK B ◀◀ (backward) button	45	DIRECTION button	69	EDIT button
23	DECK B ▶▶ (forward) button	46	DOLBY NR button	70	1/ALL DISCS button

- BACK PANEL -

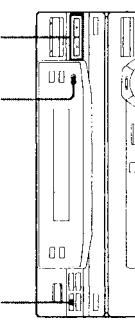


- 101** ANTENNA terminal
- 102** VOLTAGE SELECTOR switch (E, AR model)
- 103** SPEAKER terminal
- 104** SURROUND SPEAKER terminal (D790/XB33/XB50/XB60 model)
- 105** VIDEO/MD (AUDIO) jack
- 106** PHONO jack
- 107** CD DIGITAL OUT connector (XB33/XB44/XB50/XB60 model)

Step 2: Setting the time

You must set the time before using the timer functions. The clock is on a 24-hour system for the European and Brazilian models, and a 12-hour system for other models. The 24-hour system model is used for illustration purpose.

1



LBT-D390/D790/G5500/XB33/XB33K/XB44/XB44K/XB50/XB60 only

1 Press \odot / CLOCK SET.
The hour indication flashes.

2 Press TUNING + / - to set the hour.

3 Press ENTER / NEXT.
The minutes indication flashes.

4 Press TUNING + / - to set the minutes.

5 Press ENTER / NEXT.
The clock starts.

6 Press ENTER / NEXT.
The station is stored.

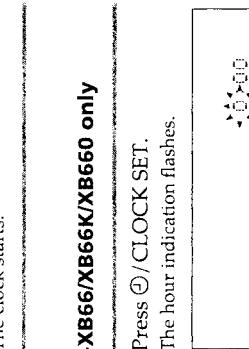
7 Repeat steps 1 through 6 to store other stations.

Tip
If you make a mistake, start over from step 1.

4 Press TUNING + / - to set the minutes.



5 Press ENTER / NEXT.
The clock starts.



1 Press \odot / CLOCK SET.
The hour indication flashes.

2 Press TUNING + / - to set the hour.

3 Press ENTER / NEXT.
The minutes indication flashes.

4 Press TUNING + / - to set the minutes.

5 Press ENTER / NEXT.
The clock starts.

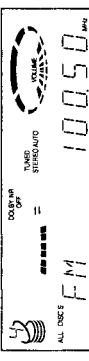
6 Press ENTER / NEXT.
The station is stored.

7 Repeat steps 1 through 6 to store other stations.

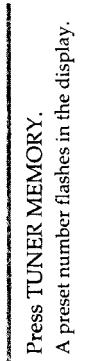
3 Press TUNING + / -.

The frequency indication changes and scanning stops when the system tunes in a station. "TUNED" and "STEREO" (for a stereo program) appear.

LBT-D390/D790/G5500/XB33/XB33K/XB44/XB44K/XB50/XB60



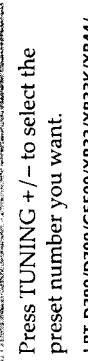
LBT-XB66/XB66K/XB660



LBT-D390/D790/G5500/XB33/XB33K/XB44/XB44K/XB50/XB60



LBT-XB66/XB66K/XB660



LBT-D390/D790/G5500/XB33/XB33K/XB44/XB44K/XB50/XB60



LBT-XB66/XB66K/XB660



Step 3: Presetting radio stations

You can preset the following number of stations:

- 2 band model: 20 for FM and 10 for AM
- 3 band model: 20 for FM, 10 for MW, and 10 for LW
- 4 band model: 20 for FM, 10 for MW, 10 for LW, and 5 for UKV

The bands you can select depend on the kind of tuner built into your system. Confirm the bands by pressing TUNER/BAND repeatedly.

1 Press \odot / (Power)



2 Press TUNER/BAND repeatedly until the band you want appears in the display.

Each time you press this button, the band changes as follows:

- 2 band model:
FM \leftrightarrow AM
- 3 band model:
FM \rightarrow MW \rightarrow LW
- 4 band model:
FM \rightarrow MW \rightarrow LW \rightarrow UKV*

3 Press TUNING + / - to select the preset number you want.



4 Press ENTER / NEXT. * When you select this band, "STEREO plus" appears in the display.

5 Press TUNING MODE repeatedly until "AUTO" appears in the display.

6 Press ENTER / NEXT. The station is stored.

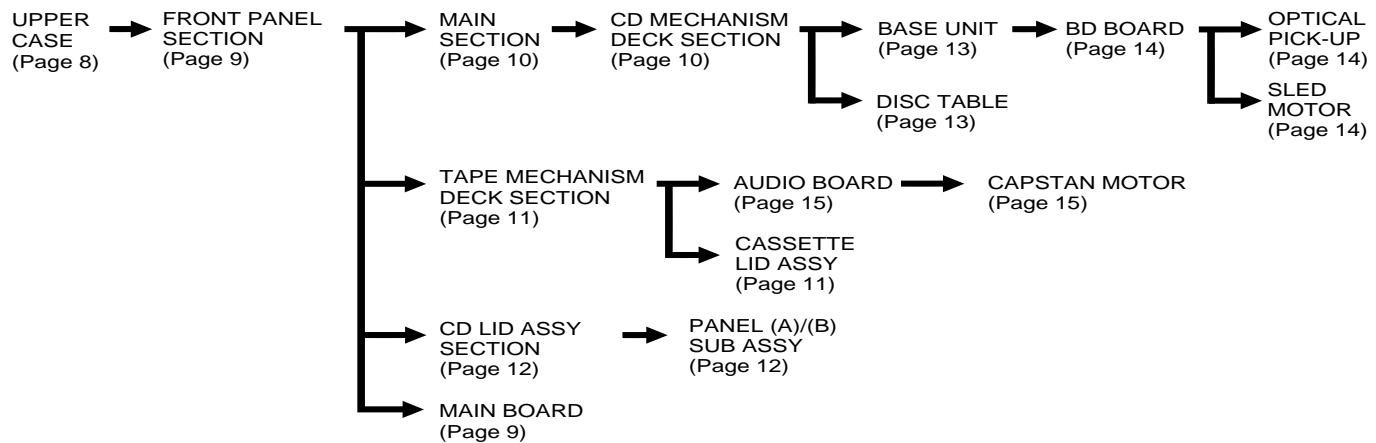
7 Repeat steps 1 through 6 to store other stations.

This section is extracted from instruction manual.

continued

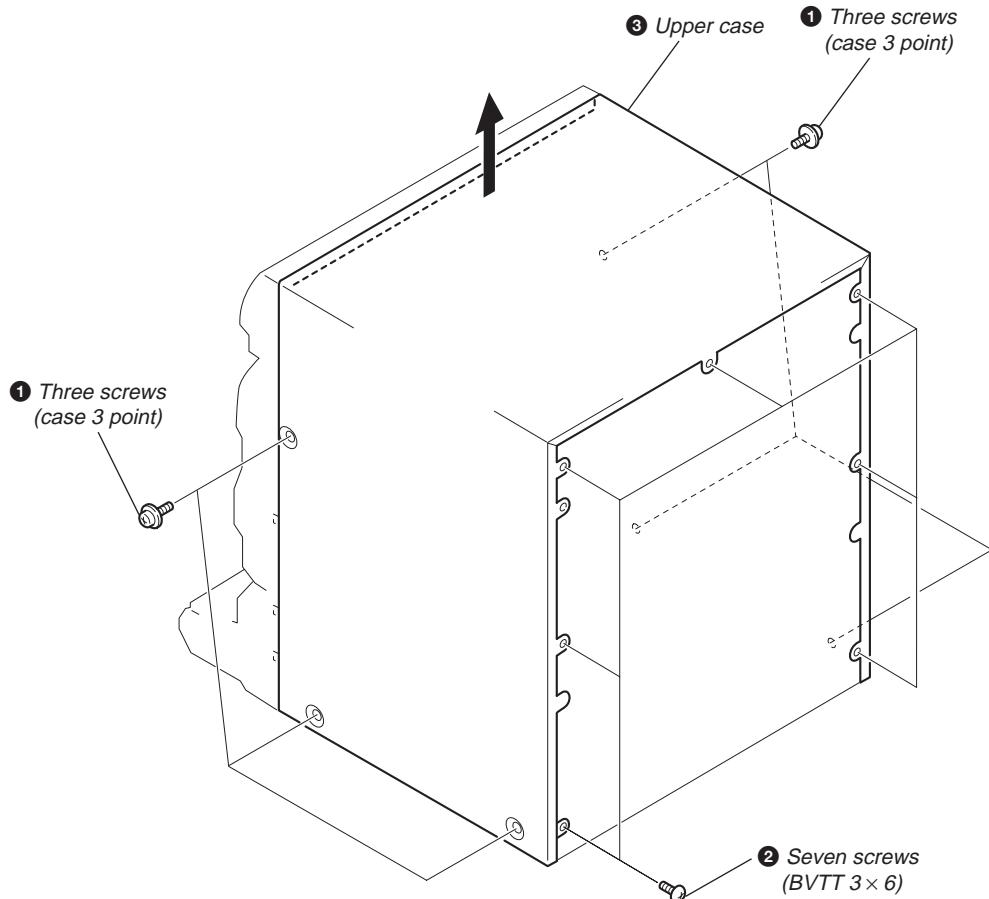
SECTION 2 DISASSEMBLY

- This set can be disassembled in the order shown below.

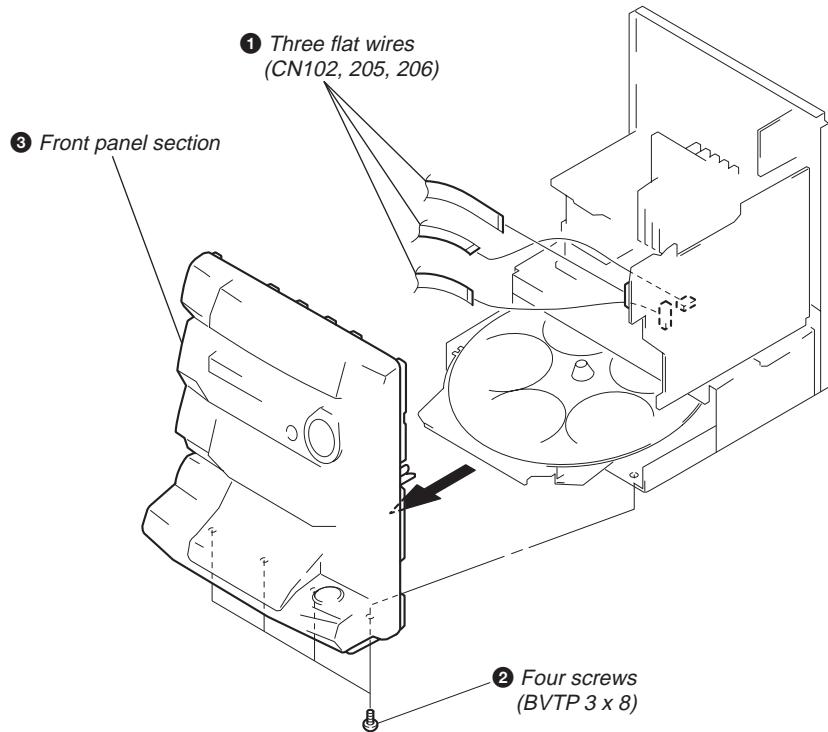


Note: Follow the disassembly procedure in the numerical order given.

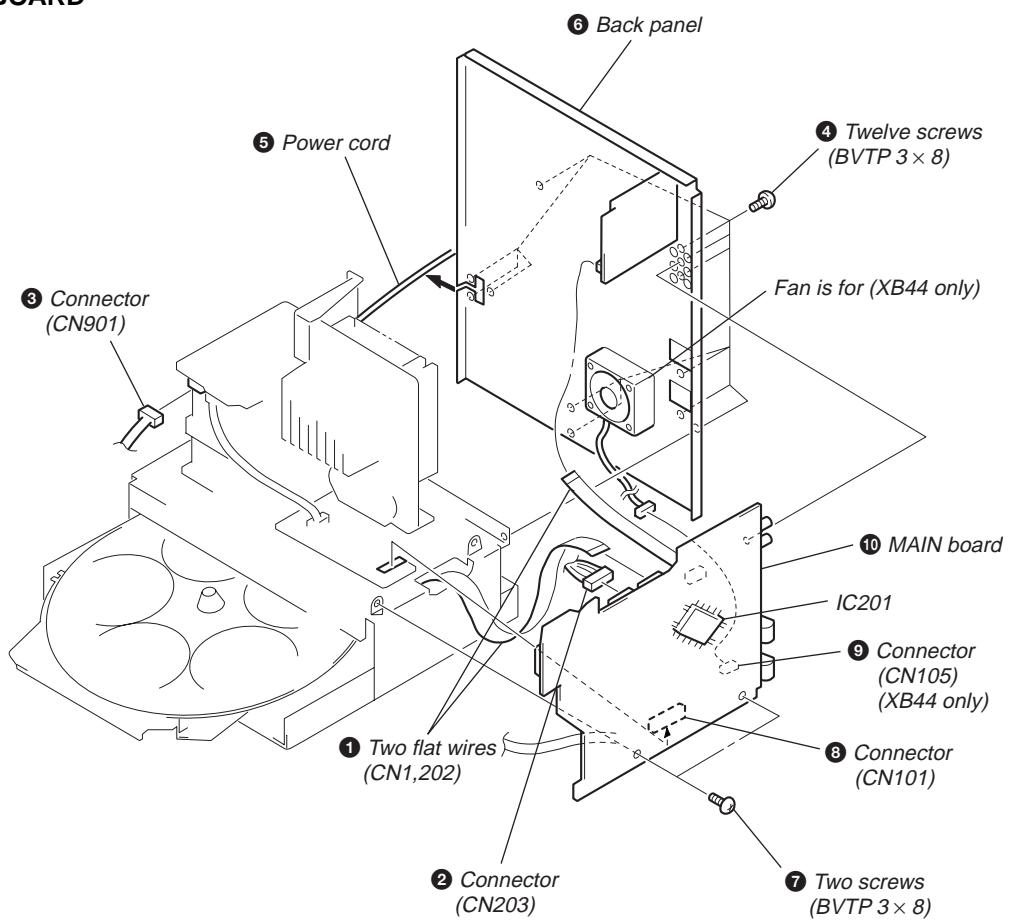
2-1. UPPER CASE



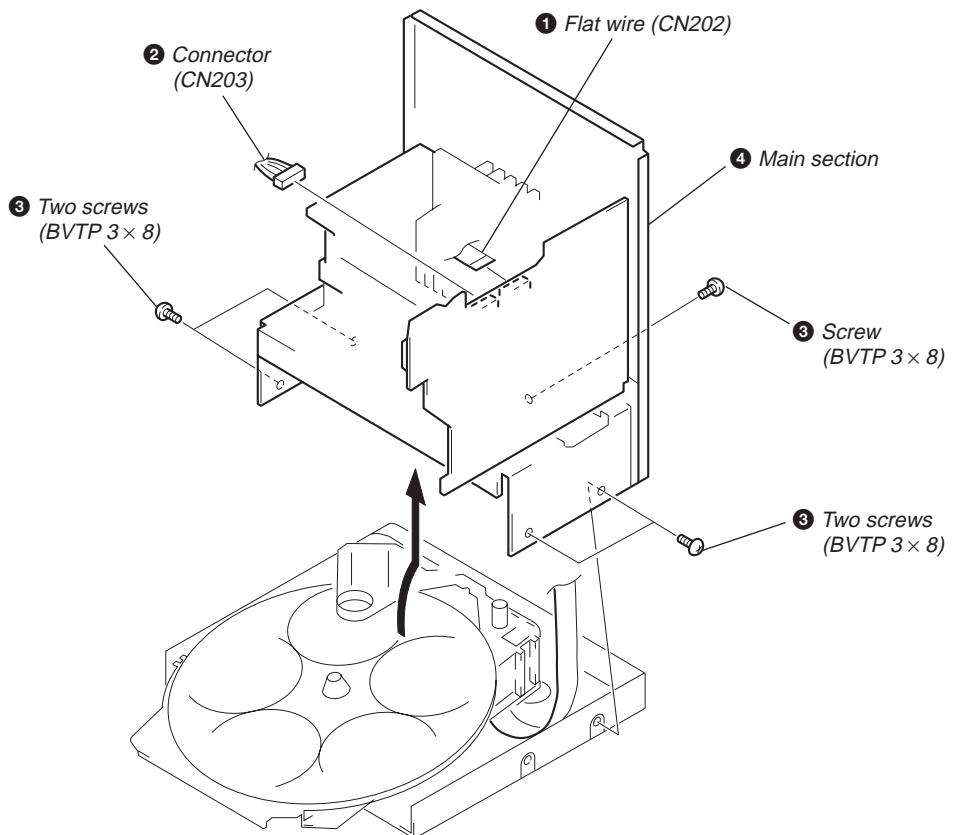
2-2. FRONT PANEL SECTION



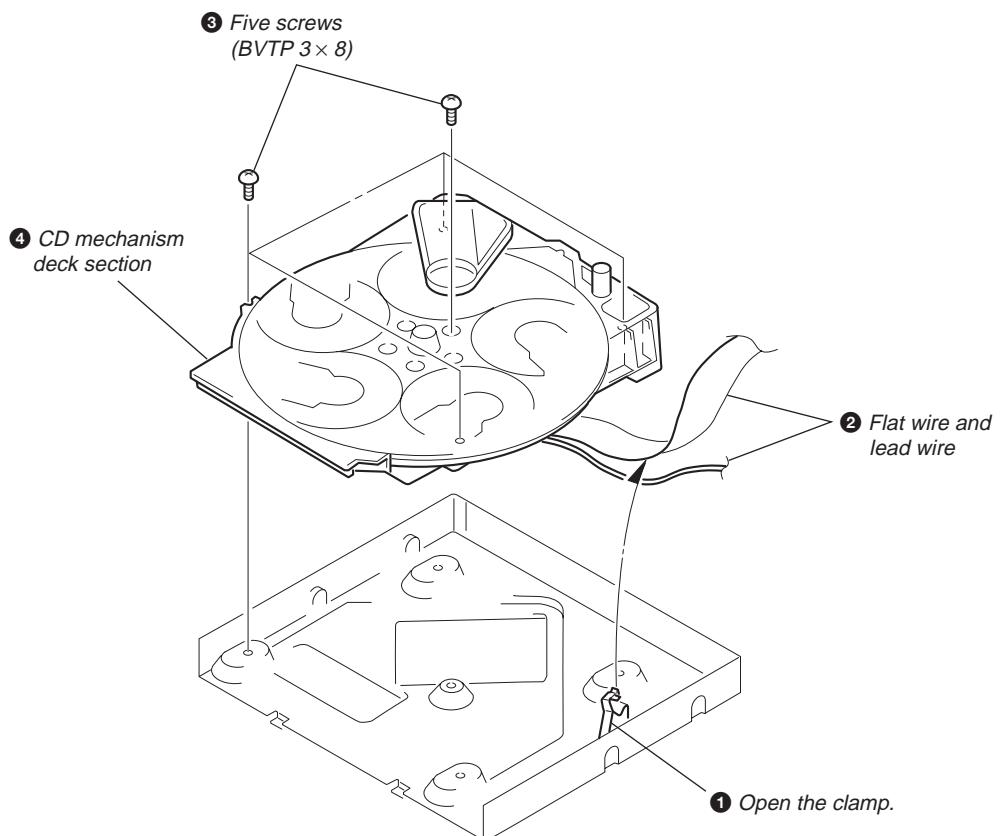
2-3. MAIN BOARD



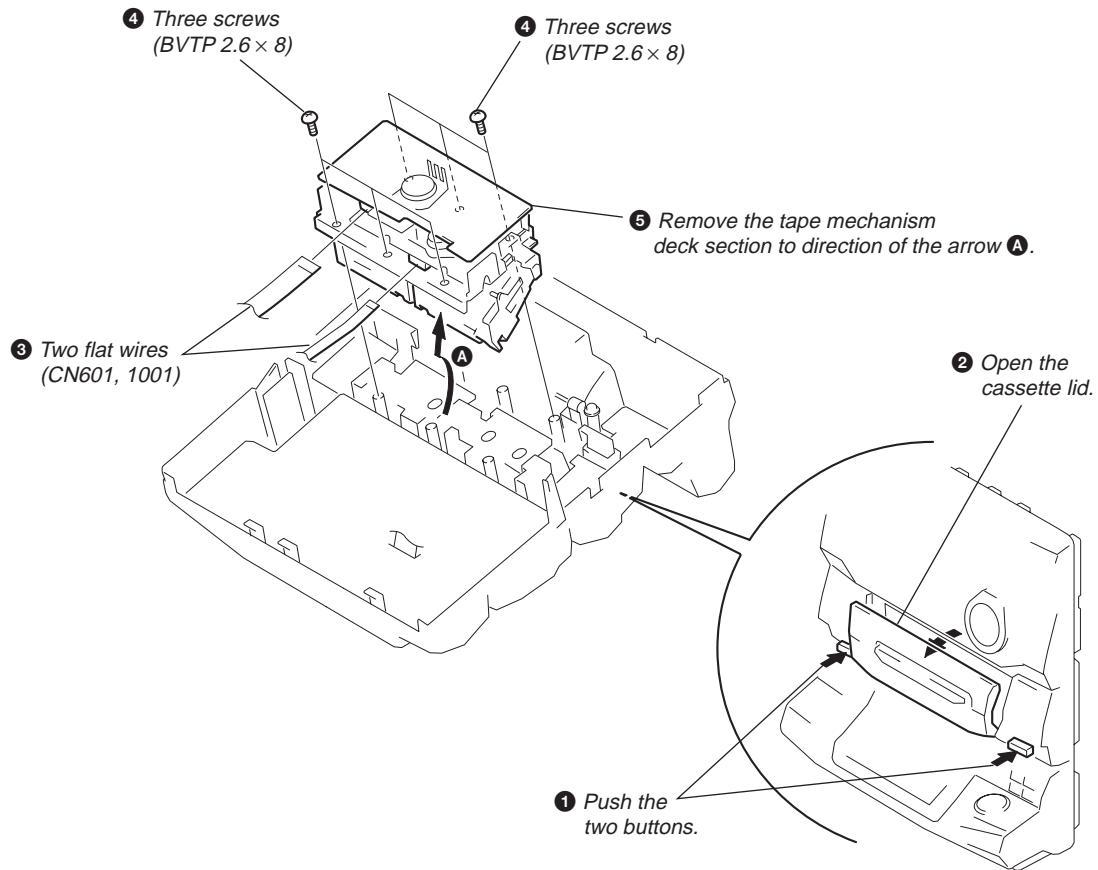
2-4. MAIN SECTION



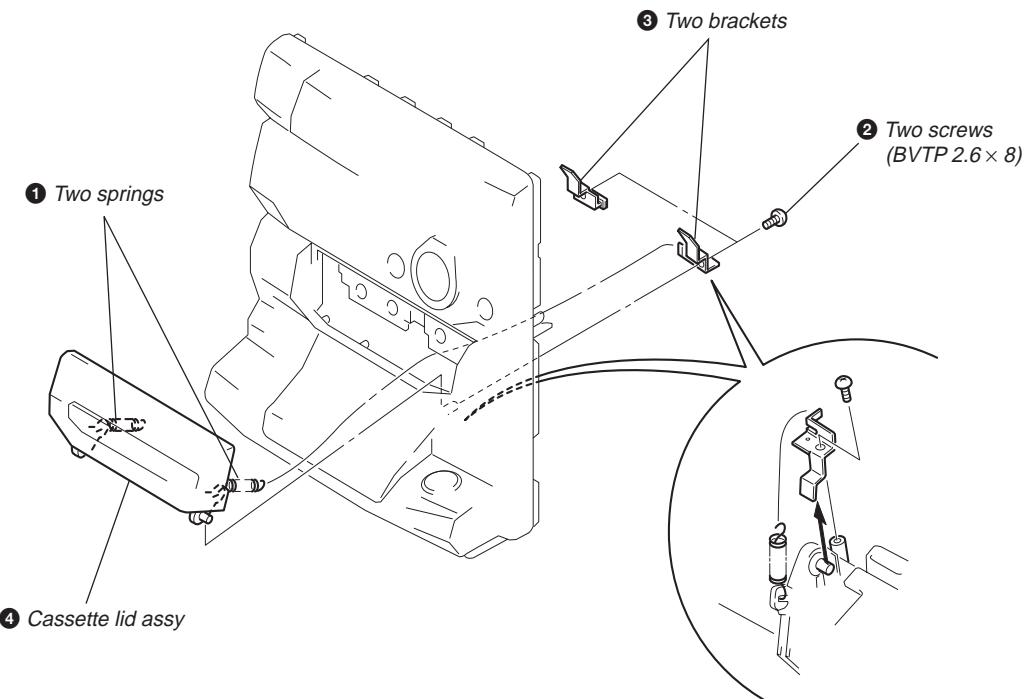
2-5. CD MECHANISM DECK SECTION



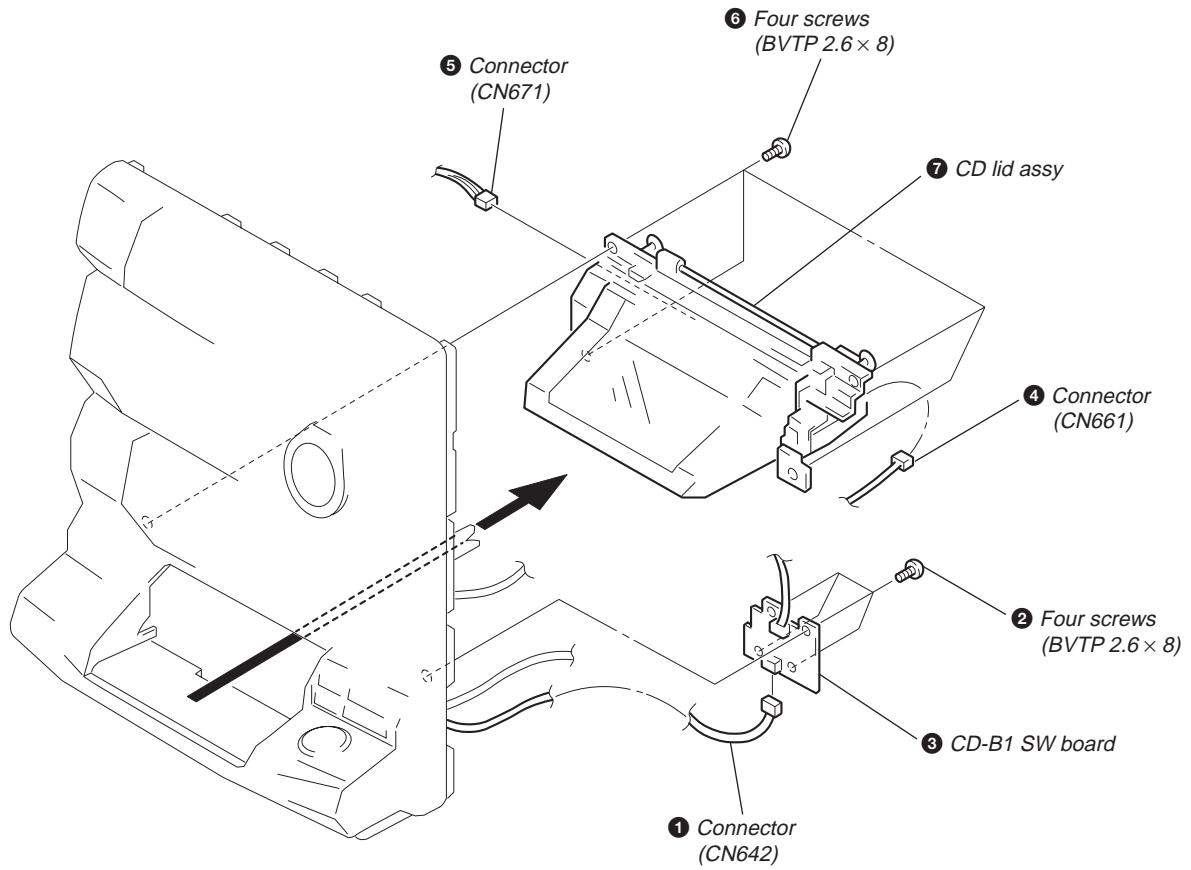
2-6. TAPE MECHANISM DECK SECTION



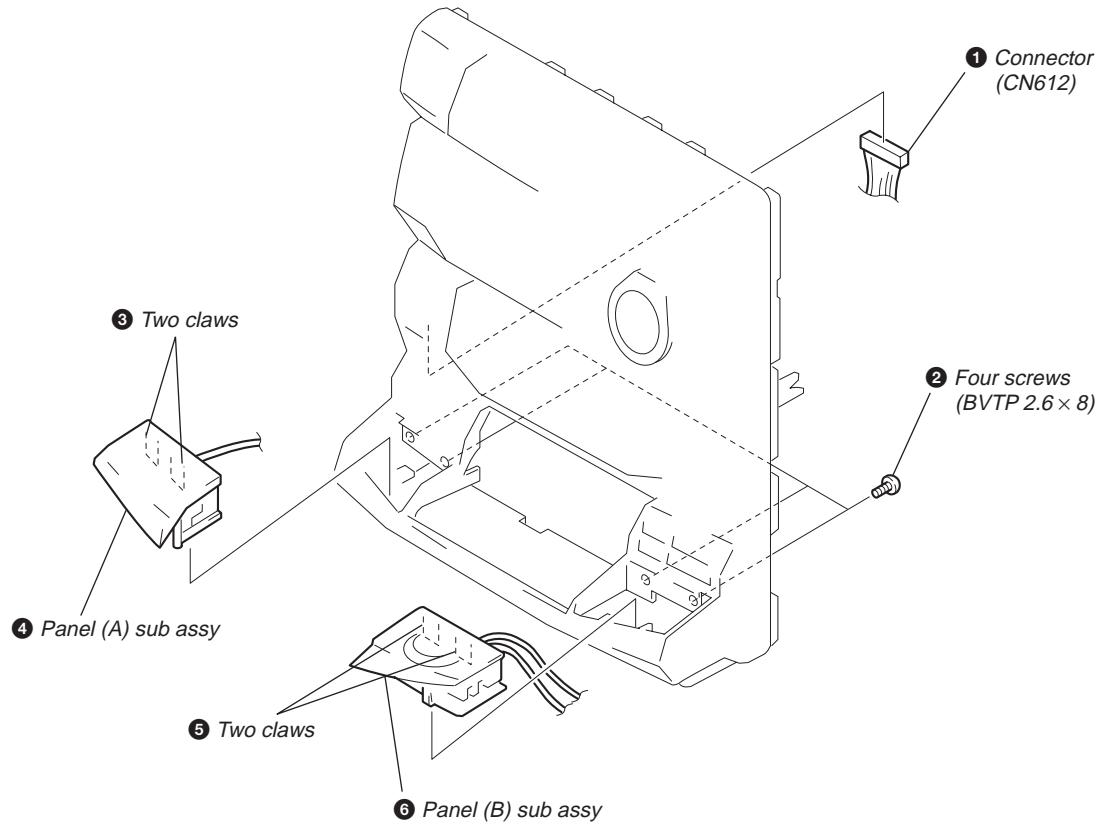
2-7. CASSETTE LID ASSY



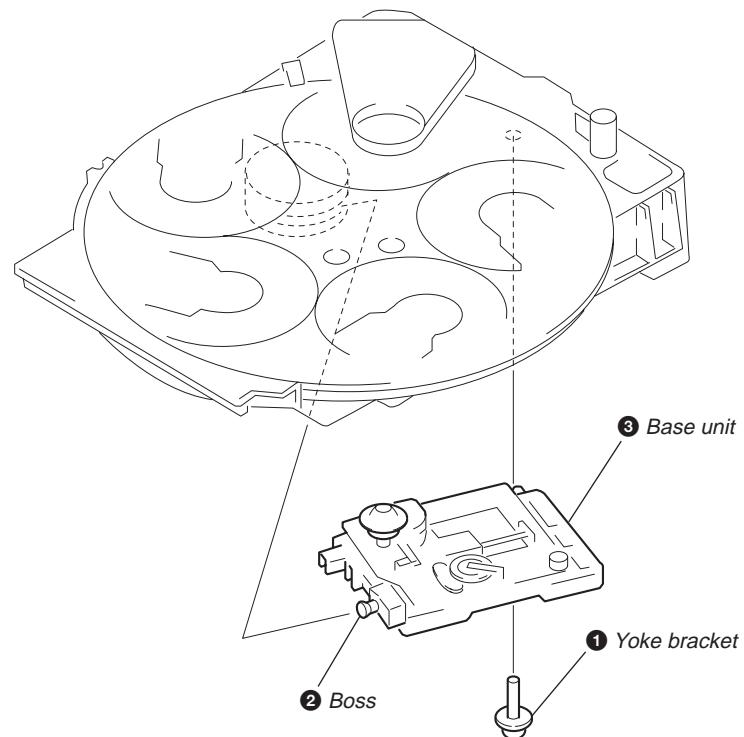
2-8. CD LID ASSY SECTION



2-9. PANEL (A) / (B) SUB ASSY



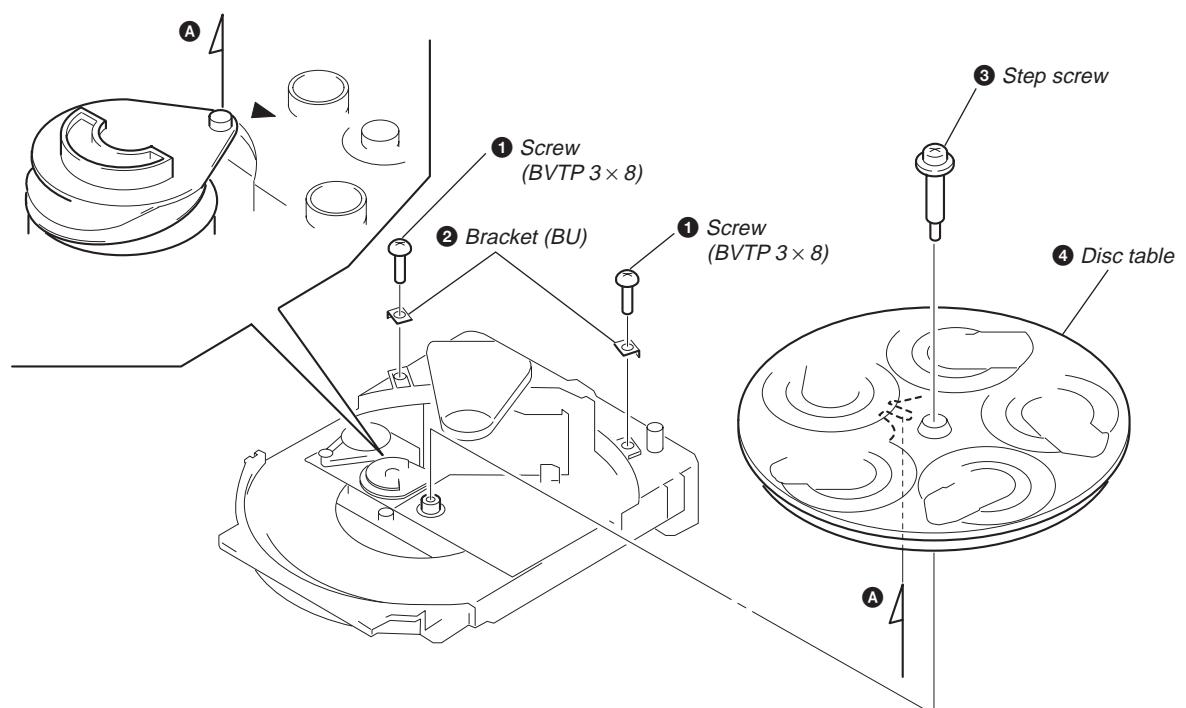
2-10. BASE UNIT



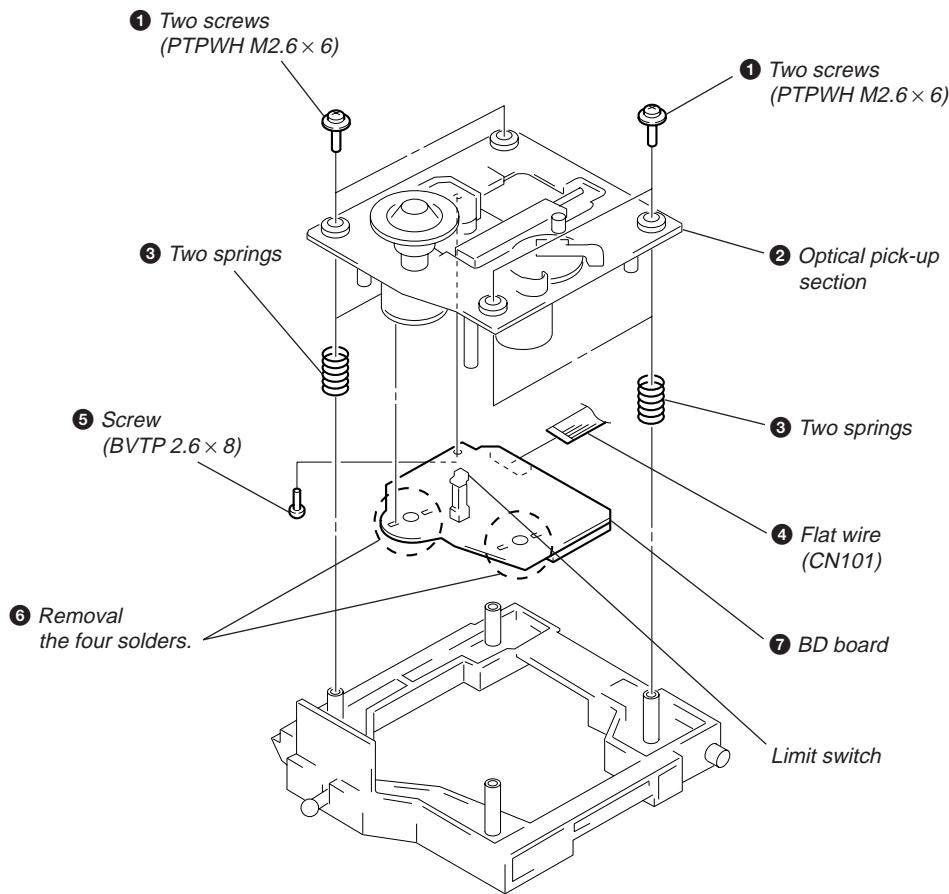
2-11. DISC TABLE

Note:

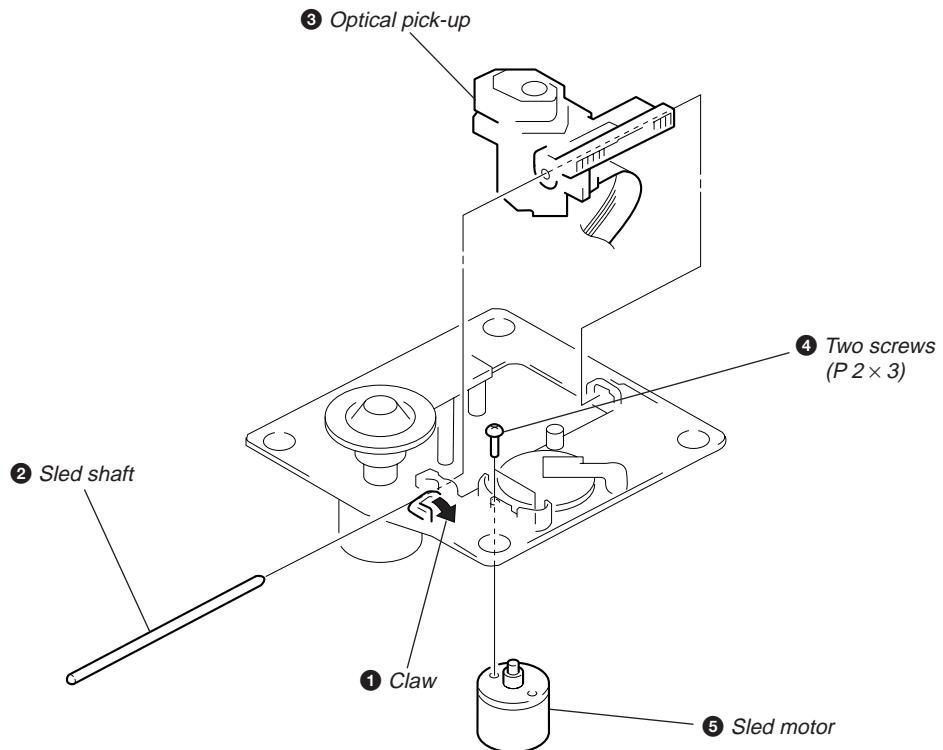
When the disc table is installed, adjust the positions of roller cam and mark ▶ as shown in the figure, then set to the groove of disc table.



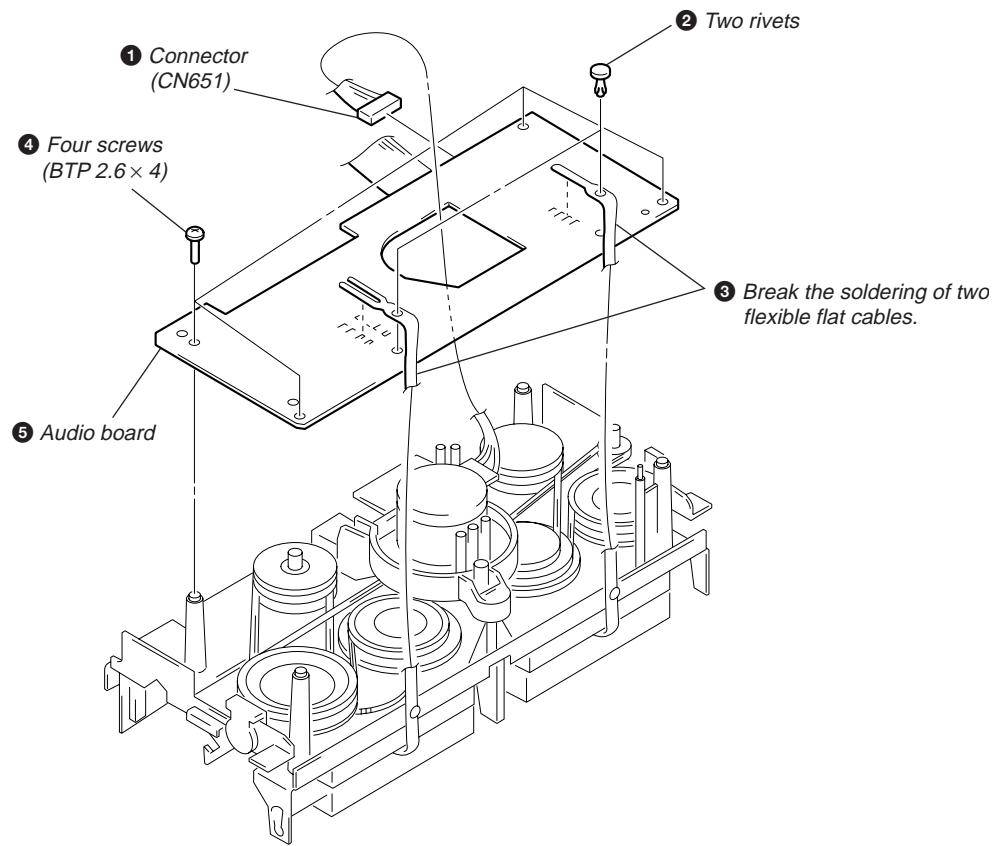
2-12. BD BOARD



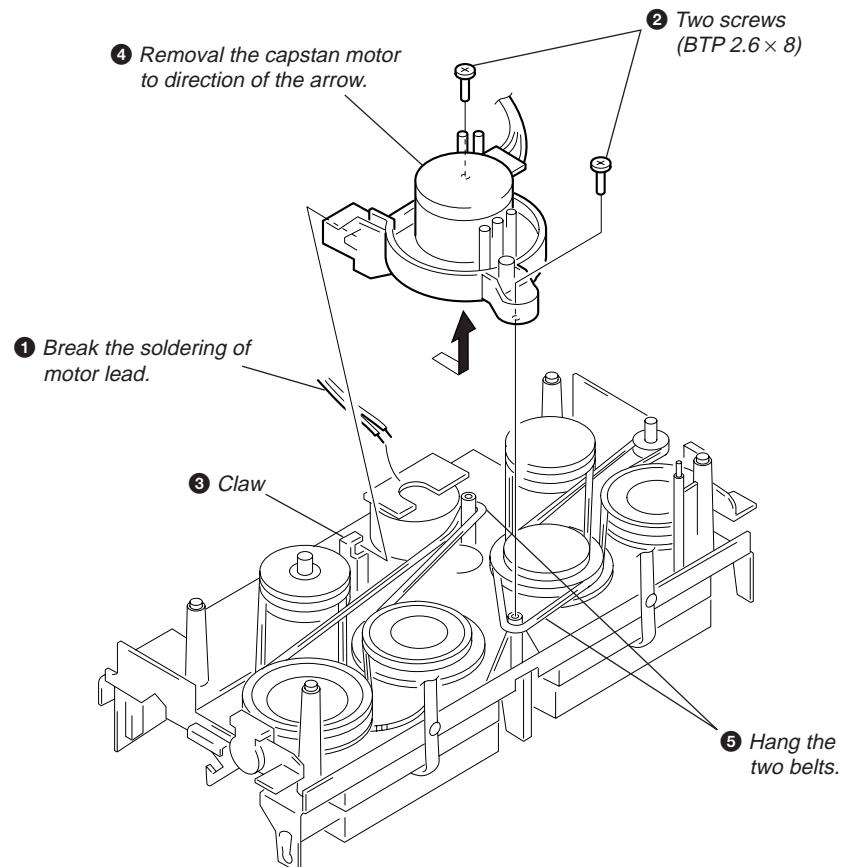
2-13. OPTICAL PICK-UP, SLED MOTOR



2-14. AUDIO BOARD



2-15. CAPSTAN MOTOR



SECTION 3

TEST MODE

[MC Cold Reset]

- The cold reset clears all data including preset data stored in the RAM to initial conditions. Execute this mode when returning the set to the customer.

Procedure:

1. Press three buttons **GROOVE**, **ENTER/NEXT**, and **DISC 1** simultaneously.
2. The fluorescent indicator tube becomes blank instantaneously, and the set is reset.

[CD Delivery Mode]

- This mode moves the pickup to the position durable to vibration. Use this mode when returning the set to the customer after repair.

Procedure:

1. Press **POWER** button to turn the set ON.
2. Press **PLAY MODE** button and **POWER** button simultaneously.
3. A message “LOCK” is displayed on the fluorescent indicator tube, and the CD delivery mode is set.

[MC Hot Reset]

- This mode resets the set with the preset data kept stored in the memory. The hot reset mode functions same as if the power cord is plugged in and out.

Procedure:

1. Press three buttons **GROOVE**, **ENTER/NEXT**, and **DISC 2** simultaneously.
2. The fluorescent indicator tube becomes blank instantaneously, and the set is reset.

[Sled Servo Mode]

- This mode can run the CD sled motor freely. Use this mode, for instance, when cleaning the pickup.

Procedure:

1. Select the function “CD”.
2. Press three buttons **GROOVE**, **ENTER/NEXT**, and **FLASH** simultaneously.
3. The Sled Servo mode is selected, if “CD” is flashing on the fluorescent indicator tube.
4. With the CD in stop status, press **▶** button in CD section to move the pickup to outside track, or **◀** button to inside track.
5. To exit from this mode, perform as follows:
 - 1) Move the pickup to the most inside track.
 - 2) Press three buttons in the same manner as step 2.

Note:

- Always move the pickup to most inside track when exiting from this mode. Otherwise, a disc will not be unloaded.
- Do not run the sled motor excessively, otherwise the gear can be chipped.

[Change-over of AM Tuner Step between 9kHz and 10kHz]

- A step of AM channels can be changed over between 9kHz and 10kHz.

Procedure:

1. Press **POWER** button to turn the set ON.
2. Select the function “TUNER”, and press **TUNER/BAND** button to select the BAND “AM”.
3. Press **POWER** button to turn the set OFF.
4. Press **ENTER/NEXT** and **POWER** buttons simultaneously, and the display of fluorescent indicator tube changes to “AM 9k STEP” or “AM 10k STEP”, and thus the channel step is changed over.

[LED and Fluorescent Indicator Tube All Lit, Key Check Mode]

Procedure:

1. Press three buttons **GROOVE**, **ENTER/NEXT**, and **DISC 3** simultaneously.
2. LEDs and fluorescent indicator tube are all turned on. Press **DISC 2** button, and the key check mode is activated.
3. In the key check mode, the fluorescent indicator tube displays “K 1 J0 V0”. Each time a button is pressed, “K” value increases. However, once a button is pressed, it is no longer taken into account.
“J” Value increases like 1, 2, 3 ... if rotating **JOG** knob in “+” direction, or it decreases like 0, 9, 8 ... if rotating in “-” direction.
“V” Value increases like 1, 2, 3 ... if rotating **VOLUME** knob in “+” direction, or it decreases like 0, 9, 8 ... if rotating in “-” direction.
4. To exit from this mode, press three buttons in the same manner as step 1, or disconnect the power cord.

[Aging Mode]

This mode can be used for operation check of CD section and tape deck section.

- If an error occurred:
The aging operation stops.
- If no error occurs:
The aging operation continues repeatedly.

1. Aging Mode in CD Section

1-1. Operating Method of Aging Mode

1. Set discs in DISC 1 and DISC 3 trays.
2. Select the function “CD”.
3. Press three buttons **[GROOVE]**, **[ENTER/NEXT]**, and **[DISC 5]** simultaneously.
4. The aging mode is activated, if a roulette mark on the fluorescent indicator tube is flashing.
5. In the aging mode, the aging is executed in a sequence given in “1-2. Operation during Aging Mode”.
The aging continues unless an alarm occurred.
6. To exit from the aging mode, press **[POWER]** button to turn the set OFF.

- If a button other than buttons in the CD section is pressed during aging, the aging in the CD section is finished.
- To execute aging to the tape deck section successively, press **[>]** button in the deck A.
“AGING” is displayed on the fluorescent indicator tube. (For the aging in tape deck, see “2. Aging Mode in Tape Deck Section”.

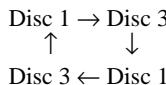
1-2. Operation during aging Mode

In the aging mode, the program is executed in the following sequence.

1. The disc tray turns to select a disc. (For a disc selection sequence, see Section 1-3.)
2. TOC of disc is read.
3. The pickup accesses to the last track.
4. Steps 1 through 3 are repeated.

1-3. Disc Selection Sequence

- During the aging mode, discs are selected in the following sequence:



2. Aging Mode in Tape Deck Section

2-1. Operating Method of Aging Mode

1. Load a commercially available 10-minute tape into the decks A and B respectively.
(If a 10-minute tape is not available, another tape may be used but a cycle time will be longer.)
2. Select the function “TAPE”.
3. Rewind tapes in advance by pressing **[<<]** button respectively on decks A and B.
4. Press three buttons **[GROOVE]**, **[ENTER/NEXT]**, and **[DISC 5]** simultaneously.
5. Press **[>]** button on deck A. (This button triggers the aging mode.)
6. The aging mode is activated if “AGING A” is displayed on the fluorescent indicator tube.
7. In the aging mode, the aging is executed in a sequence given in “2-2. Operation during Aging Mode”.
The aging continues unless an alarm occurred.

8. To exit from the aging mode, press **[POWER]** button to turn the set OFF.

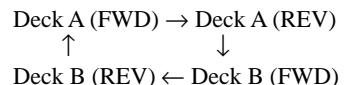
2-2. Operation during Aging Mode

In the aging mode, the program is executed in the following sequence.

1. A tape on FWD side is played for one minute.
2. PAUSE STOP is made.
3. Recording is made for 3 minutes. (For the deck not having the record function, the play is executed.)
4. FF is executed up to the end of tape.
5. A tape is reversed, and the tape on REV side is played for one minute.
6. PAUSE STOP is made.
7. Recording is made for 3 minutes. (For the deck not having the record function, the play is executed.)
8. FF is executed up to the end of tape.
9. Steps 1 through 8 are executed for the other deck.
10. Steps 1 through 9 are repeated unless an alarm occurred.

2-3. Deck Selection Sequence

- During the aging mode, decks are selected in the following sequence:



SECTION 4 MECHANICAL ADJUSTMENTS

PRECAUTION

1. Clean the following parts with a denatured-alcohol-moistened swab:

record/playback head	pinch roller
erase head	rubber belts
capstan	idle
2. Demagnetize the record/playback head with a head demagnetizer. (Do not bring the head demagnetizer close to the erase head.)
3. Do not use a magnetized screwdriver for the adjustments.
4. After the adjustments, apply suitable locking compound to the parts adjusted.
5. The adjustments should be performed with the rated power supply voltage unless otherwise noted.

• Torque Measurement

Mode	Torque Meter	Meter Reading
Forward	CQ-102C	36 to 61g·cm (0.50 – 0.84 oz·inch)
Forward Back Tension	CQ-102C	2 to 6g·cm (0.026 – 0.082 oz·inch)
Reverse	CQ-102RC	36 to 61g·cm (0.50 – 0.84 oz·inch)
Reverse Back Tension	CQ-102RC	2 to 6g·cm (0.026 – 0.082 oz·inch)
FF, REW	CQ-201B	61 to 143g·cm (0.85 – 1.98 oz·inch)

• Tape Tension Measurement

Mode	Tension Meter	Meter Reading
Forward	CQ-403A	more than 100g (3.52 oz)
Reverse	CQ-403R	more than 100g (3.52 oz)

SECTION 5 ELECTRICAL ADJUSTMENTS

DECK SECTION [0dB=0.775V]

1. Demagnetize the record/playback head with a head demagnetizer. (Do not bring the head demagnetizer close to the erase head.)
2. Do not use a magnetized screwdriver for the adjustments.
3. After the adjustments, apply suitable locking compound to the parts adjust.
4. The adjustments should be performed with the rated power supply voltage unless otherwise noted.
5. The adjustments should be performed in the order given in this service manual. (As a general rule, playback circuit adjustment should be completed before performing recording circuit adjustment.)
6. The adjustments should be performed for both L-CH and R-CH.
7. Switches and controls should be set as follows unless otherwise specified.
8. Set to test mode. (Press key switch same time [GROOVE] [ENTER/NEXT] and [DISC 4] button.)

• Test Tape

Tape	Signal	Used for
P-4-A100	10kHz, -10 dB	Azimuth Adjustment
WS-48B	3kHz, 0dB	Tape Speed Adjustment
P-4-L300	315Hz, 0dB	Level Adjustment

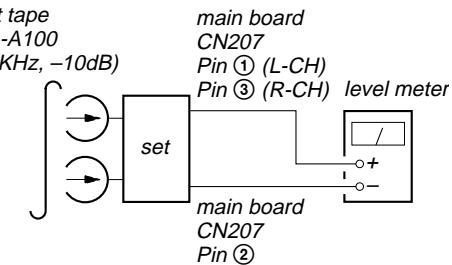
Record/Playback Head Azimuth Adjustment

DECK A DECK B

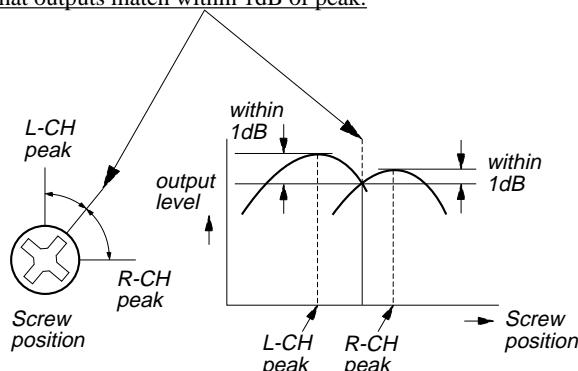
Note: Perform this adjustments for both decks

Procedure:

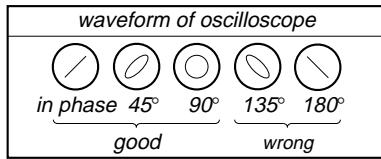
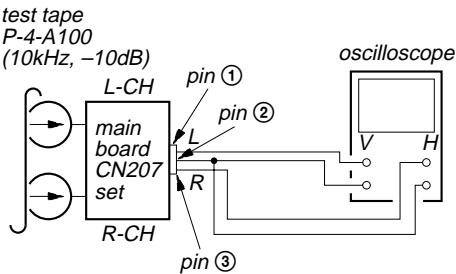
1. Mode: Playback (FWD)



2. Turn the adjustment screw and check output peaks. If the peaks do not match for L-CH and R-CH, turn the adjustment screw so that outputs match within 1dB of peak.

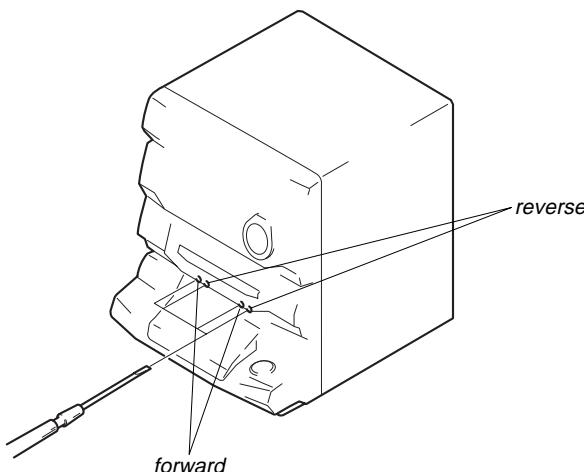


3. Mode: Playback (FWD)



4. Repeat steps 1 to 3 in playback (REV) mode.
 5. After the adjustments, apply suitable locking compound to the parts adjusted.

Adjustment Location: Record/Playback Head (Deck A and B) and main board.



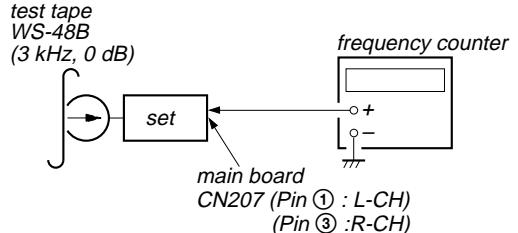
Tape Speed Adjustment DECK A

Notes: • Start the Tape Speed adjustment as below after setting to the test mode.
 • In the test mode, the tape speed is high during pressing the **H. SPEED DUB** button.

Procedure:

1. Turn the power switch on.
2. Press the **GROOVE** button, **ENTER/NEXT** button and **DISC 4** button simultaneously.
 To exit from the test mode, press the **POWER** button.

Mode: Playback (FWD)



1. Insert the WS-48B into the deck A and the blank tape into the deck B.
2. Press the **REC** button and **▷** button on the deck B. Then the deck B is at recording mode.
3. Set the deck A to playback mode.
4. Keep pressing the **H. SPEED DUB** button in playback mode. Then at HIGH speed mode.
5. Adjust RV652 on the AUDIO board so that frequency counter reads $6,000 \pm 60$ Hz.
6. Take off the **H. SPEED DUB** button. Then at NORMAL speed mode.
7. Adjust RV651 on the AUDIO board so that frequency counter reads $3,000 \pm 30$ Hz.
8. Frequency difference between deck A and deck B the beginning of the tape should be within $\pm 1.5\%$.

Adjustment Location: AUDIO board

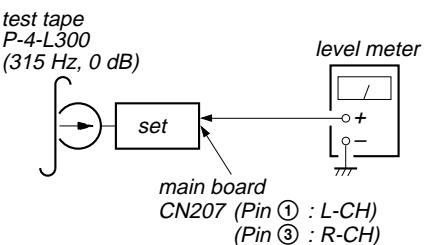
Sample Value of Wow and flutter

W.RMS (JIS) within 0.3%
 (test tape: WS-48B)

Playback level Adjustment DECK A DECK B

Procedure:

Mode: Playback (FWD)



Deck A is RV311 (L-CH) and RV411 (R-CH), Deck B is RV301 (L-CH) and RV401 (R-CH) so that adjustment within adjustment level as follows.

Adjustment Level:

CN207 PB level: 301.5 to 338.3 mV (-8.2 to -7.2 dB) level difference between the channels: within ± 0.5 dB

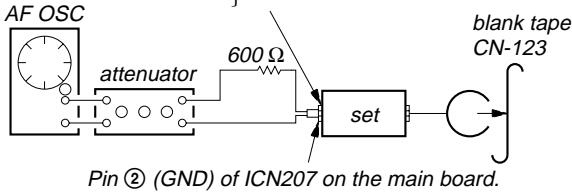
Adjustment Location: AUDIO and main boards

Record Bias Current Adjustment DECK B

Procedure:

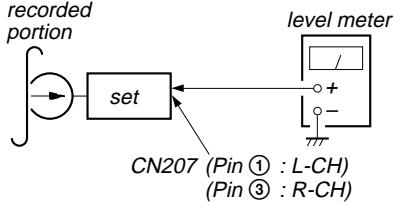
1. Mode: record

Pin ⑥ (L-CH) of IC1501 on the main board.
 Pin ⑦ (L-CH) of IC1501 on the main board.
 1) 315 Hz
 2) 10 kHz } 50 mV (-23.8 dB)



Pin ② (GND) of ICN207 on the main board.

2. Mode: Playback



Confirm playback that the signal recorded in step 1 becomes adjustable limits as follows.

If these levels are not adjustable limits, adjust the RV341 (L-CH) and RV441 (R-CH) on the AUDIO board to repeat steps 1 and 2.

Adjustable limits: Playback output of 315 Hz to playback output of 10kHz: 0 ± 0.5 dB

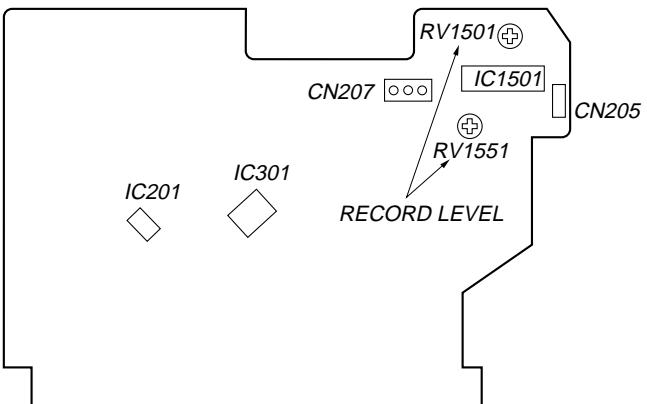
Adjustment Location: AUDIO and main boards

Adjustable limits:

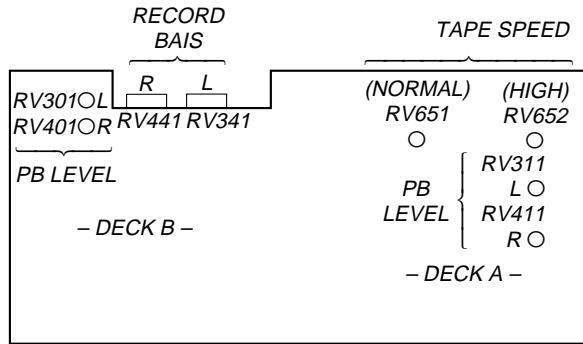
CN207 PB level: 47.3 to 53.1 mV (-24.3 to -23.3 dB)

Adjustment Location: main board

[MAIN BOARD] (Component Side)



[AUDIO BOARD] (Conductor Side)

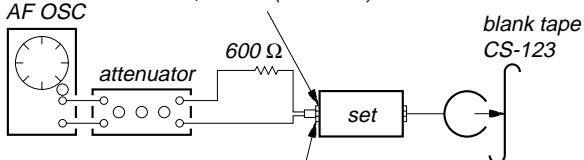


Record Level Adjustment DECK B

Procedure:

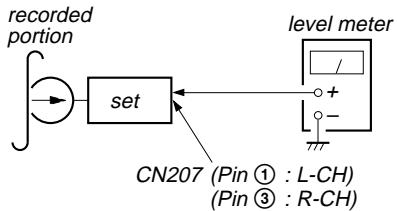
1. Mode: record

Pin ⑥ (L-CH) of IC1501 on the main board.
 Pin ⑦ (R-CH) of IC1501 on the main board.
 315 Hz, 50 mV (-23.8 dB)



Pin ② (GND) of CN207 on the main board.

2. Mode: Playback



Confirm playback that the signal recorded in step 1 becomes adjustable limits as follows.

If these levels are not adjustable limits, adjust the RV1501 (L-CH) and RV1551 (R-CH) on the main board to repeat steps 1 and 2.

TUNER SECTION

0dB=1 μ V

Note 1: As a front-end (FE1) is difficult to repair if faulty, replace it with new one.

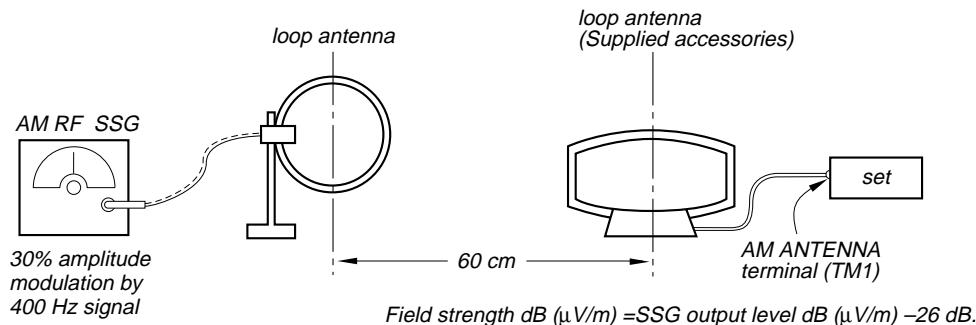
Note 2: No adjustment is needed due to a tuner pack for except AEP, UK, East European, CIS models.

AM Tuned Level Adjustment

Note: FM Tuned Level adjustment should be performed after this AM Tuned Level Adjustment.

Setting:

Band: MW



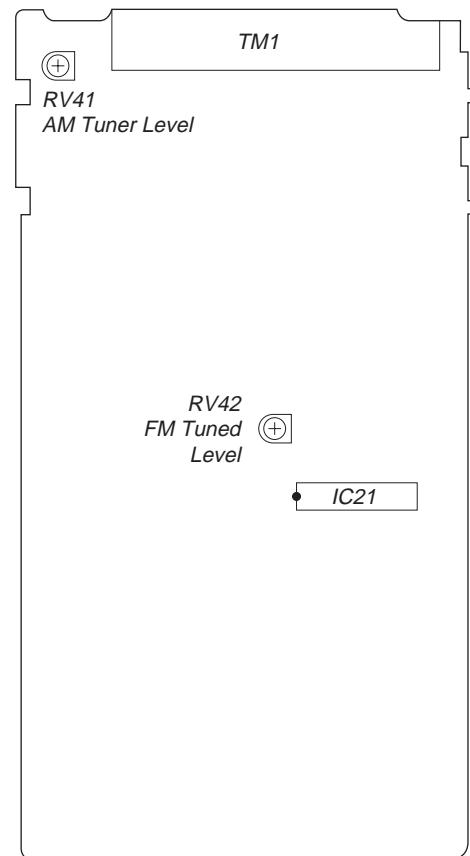
Modulation: 999 kHz (at 9 kHz step)
1,050 kHz (at 10 kHz step)

Procedure:

1. Set the output of SSG so that the input level of the set becomes 55 dB.
2. Tune the set to 999 kHz or 1,050 kHz.
3. Adjust RV41 to the point (moment) when the TUNED indicator will change from going off to going on.

Adjustment Location: TCB board

[TCB BOARD] (Component Side)



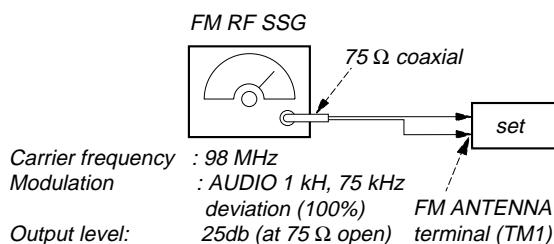
Adjustment Location: TCB board

FM Tuned Level Adjustment

Note: This adjustment should be performed after the AM Tuned Level Adjustment.

Setting:

Band: FM

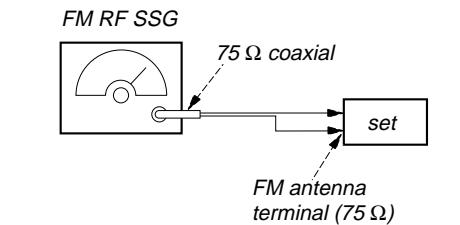


Procedure:

1. Supply a 25 dB 98 MHz signal from the ANTENNA terminal.
2. Tune the set to 98 MHz.
3. Adjust RV42 to the point (moment) when the TUNED indicator will change from going off to going on.

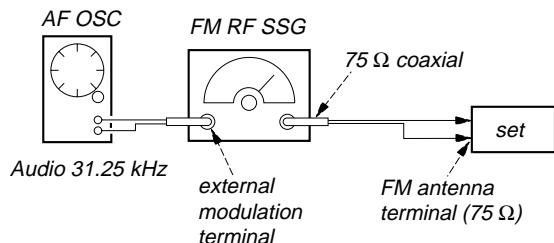
FM Polar Adjustment (East European, CIS model only)

Connection 1:



Carrier frequency: 69 MHz
Output level : 1 mV (60 dB μ) (at 75 Ω open)
Modulation: AUDIO 1 kHz, 10 kHz deviation

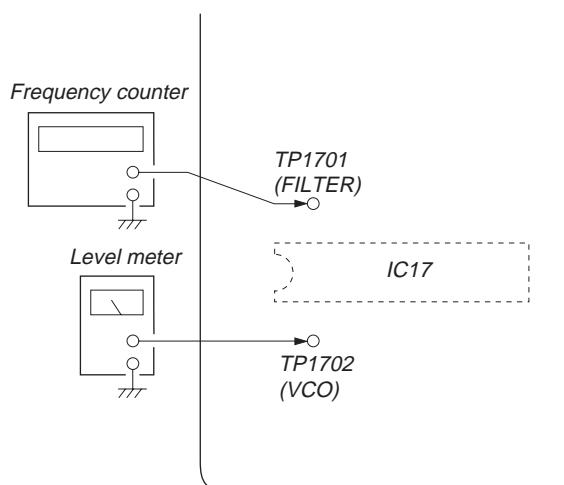
Connection 2:



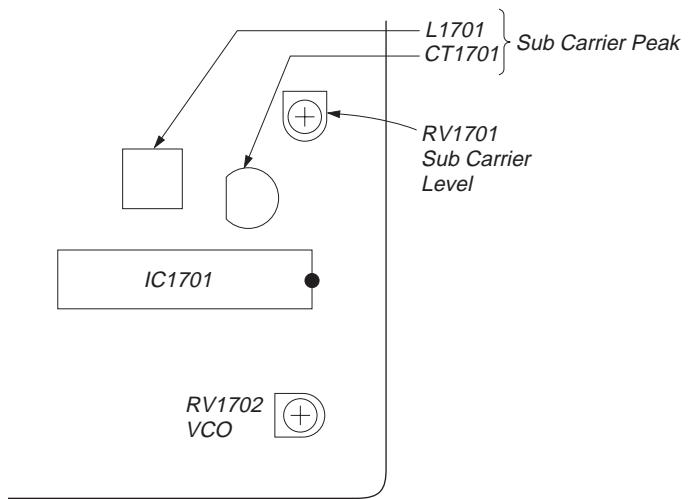
Carrier frequency: 69 MHz
Output level : 1 mV (60 dB μ) (at 75 Ω open)
Modulation: AUDIO 31.25 kHz, 10 kHz deviation
(EXTERNAL MODULATION)

Adjustment Location: TCB board

[TCB BOARD] (Conductor Side)



[TCB BOARD] (Component Side)

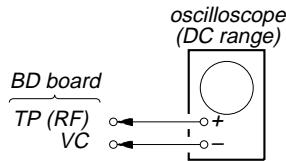


CD SECTION

Note:

1. CD Block is basically designed to operate without adjustment. Therefore, check each item in order given.
2. Use YEDS-18 disc (3-702-101-01) unless otherwise indicated.
3. Use an oscilloscope with more than $10M\Omega$ impedance.
4. Clean the object lens by an applicator with neutral detergent when the signal level is low than specified value with the following checks.
5. Adjust the focus bias adjustment when optical block is replaced.

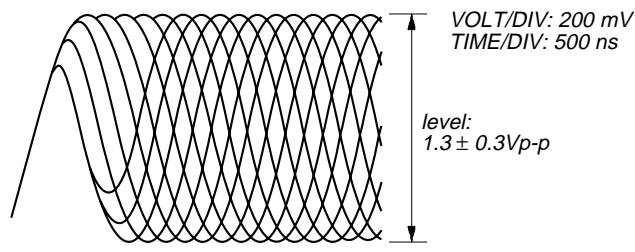
Focus Bias check



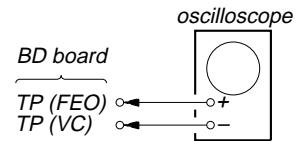
Procedure:

1. Connect oscilloscope to test point TP (RF). (GND terminal : VC)
2. Turned Power switch on.
3. Put disc (YEDS-18) in and playback.
4. Confirm that the shape “◇” can be clearly distinguished at the center of the waveform and check the RF signal level.

• RF signal



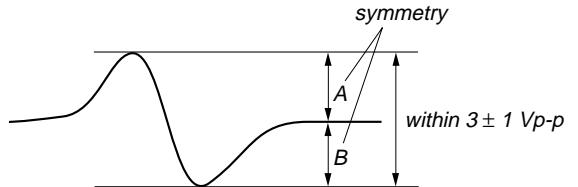
S Curve Check



Procedure:

1. Connect oscilloscope to test point TP (FEO).
2. Connect between test point TP (FOK) and GND by lead wire.
3. Turn Power switch on.
4. Put disc (YEDS-18) in and turned Power switch on again and actuate the focus search. (actuate the focus search when disc table is moving in and out.)
5. Check the oscilloscope waveform (S-curve) is symmetrical between A and B. And confirm peak to peak level within 3 ± 1 Vp-p.

S-curve waveform

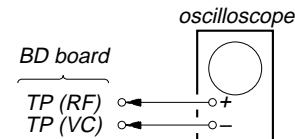


6. After check, remove the lead wire connected in step 2.

Notes:

- Try to measure several times to make sure than the ratio of A : B or B : A is more than 10 : 7.
- Take sweep time as long as possible and light up the brightness to obtain best waveform.

RF Level Check

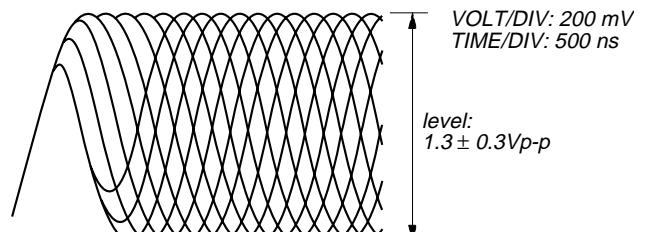


Procedure:

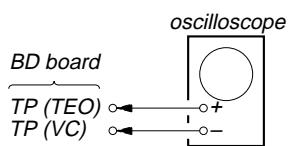
1. Connect oscilloscope to test point TP (RF) on BD board.
2. Turned Power switch on.
3. Put disc (YEDS-18) in and playback.
4. Confirm that oscilloscope waveform is clear and check RF signal level is correct or not.

Note: Clear RF signal waveform means that the shape “◇” can be clearly distinguished at the center of the waveform.

• RF signal

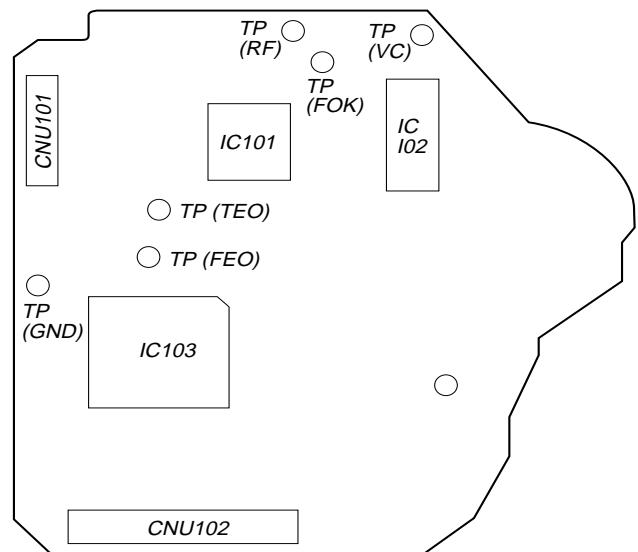


**E-F Balance (1 Track Jump) check
(Without remote commander)**



Adjustment Location:

[BD BOARD] (Conductor Side)

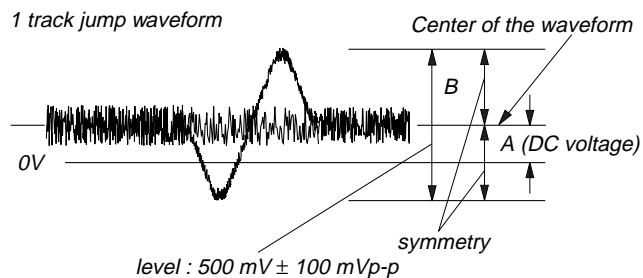


Procedure:

1. Connect oscilloscope to test point TP (TEO) on BD board.
2. Turned Power switch on.
3. Put disc (YEDS-18) in to play the number five track.
4. Press the “II (Pause)” button. (Becomes the 1 track jump mode)
5. Check the level B of the oscilloscope's waveform and the A (DC voltage) of the center of the Traverse waveform.

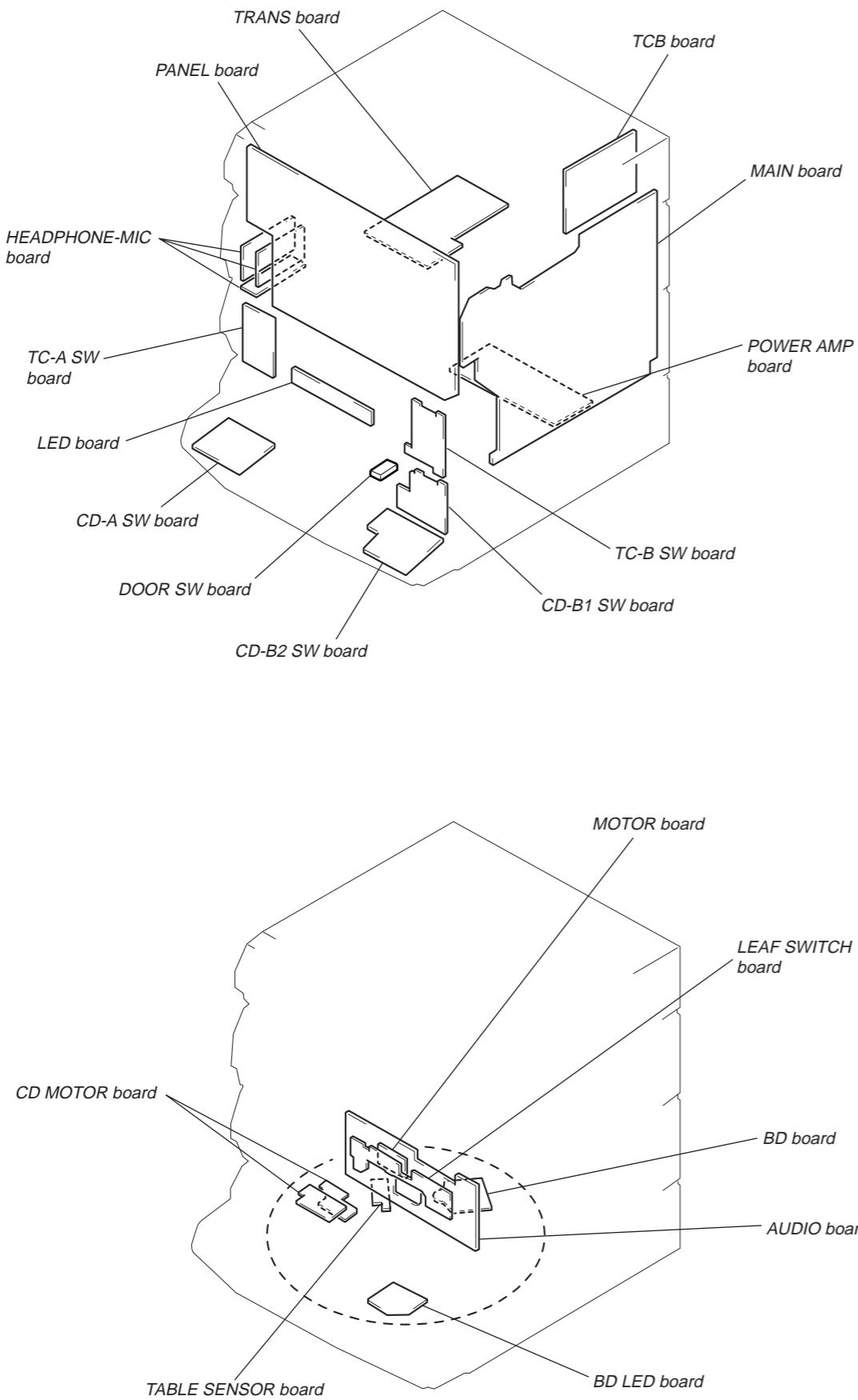
Confirm the following:

$$\frac{A - B}{2(A + B)} \times 100 = \pm 7\% (\%)$$

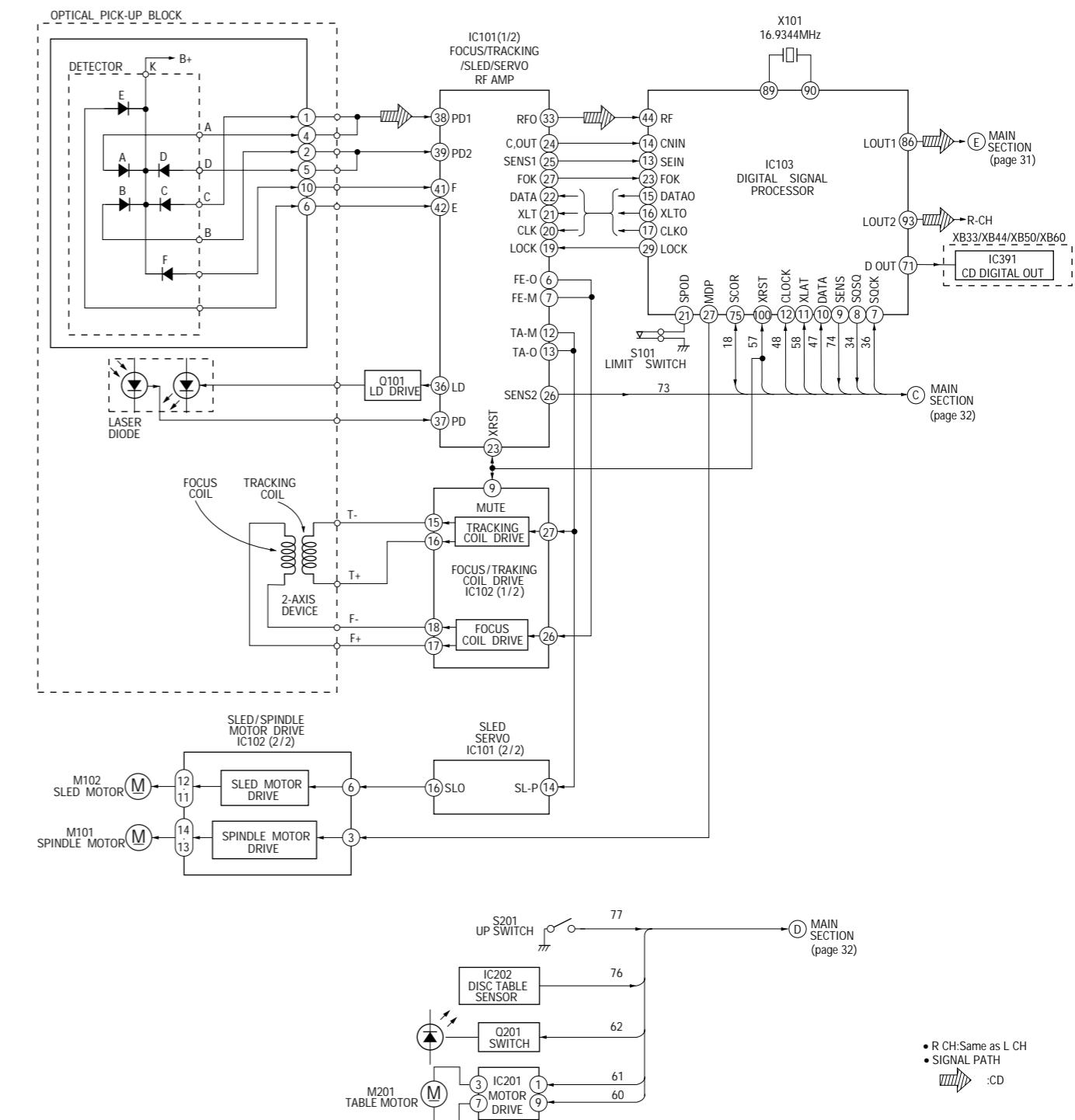


SECTION 6 DIAGRAMS

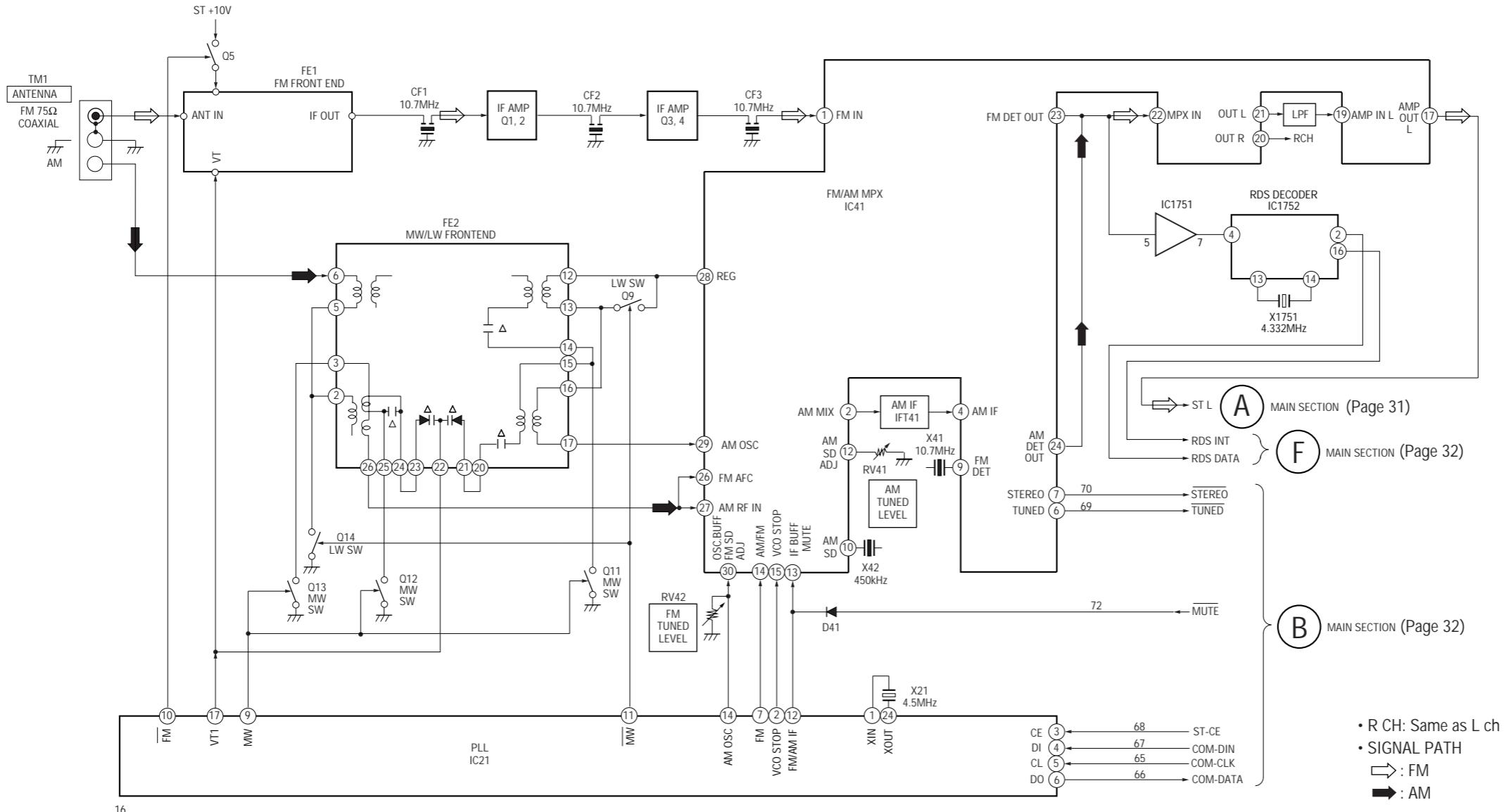
6-1. CIRCUIT BOARD LOCATION



6-2. BLOCK DIAGRAMS – CD SECTION –

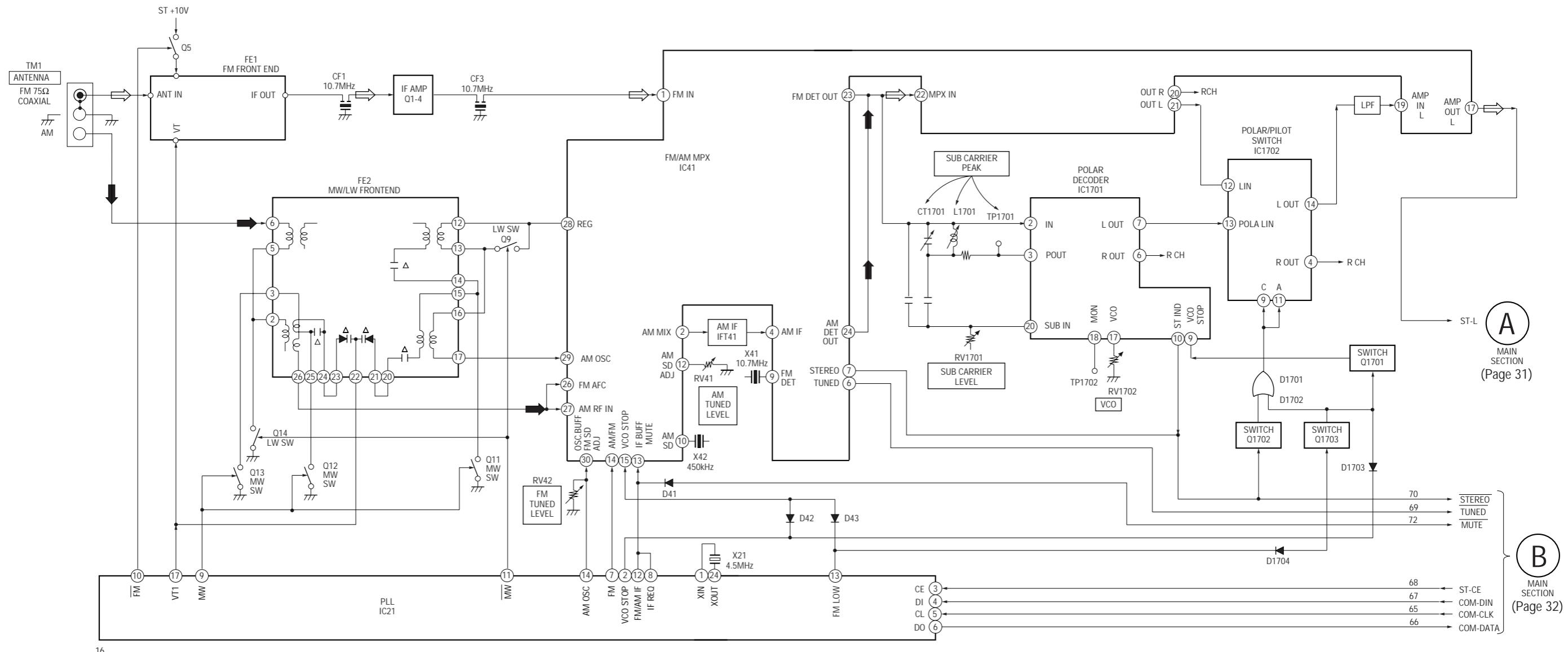


- TUNER SECTION – (AEP, UK model)



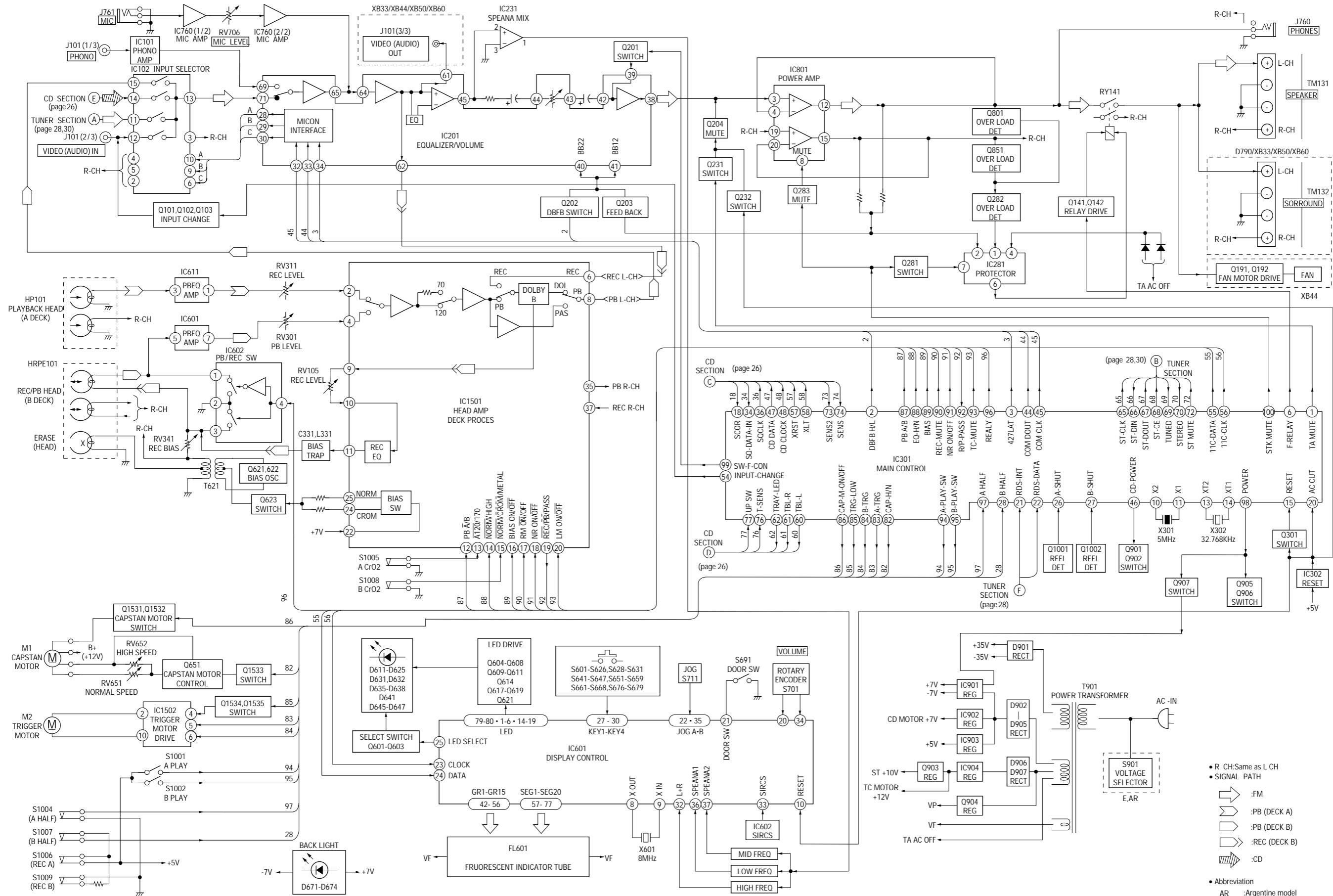
16

– TUNER SECTION – (East European, CIS model)



- R CH: Same as L ch
- SIGNAL PATH
 - ➡: FM
 - ➡: AM

- MAIN SECTION -



THIS NOTE IS COMMON FOR PRINTED WIRING**BOARDS AND SCHEMATIC DIAGRAMS.**

(In addition to this necessary note is printed in each block.)

For schematic diagrams.**Note:**

- All capacitors are in μF unless otherwise noted. pF : $\mu\mu F$ 50 μV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $1/4 W$ or less unless otherwise specified.
- % : indicates tolerance.
- \triangle : internal component.
-  : nonflammable resistor.
-  : fusible resistor.
-  : panel designation.

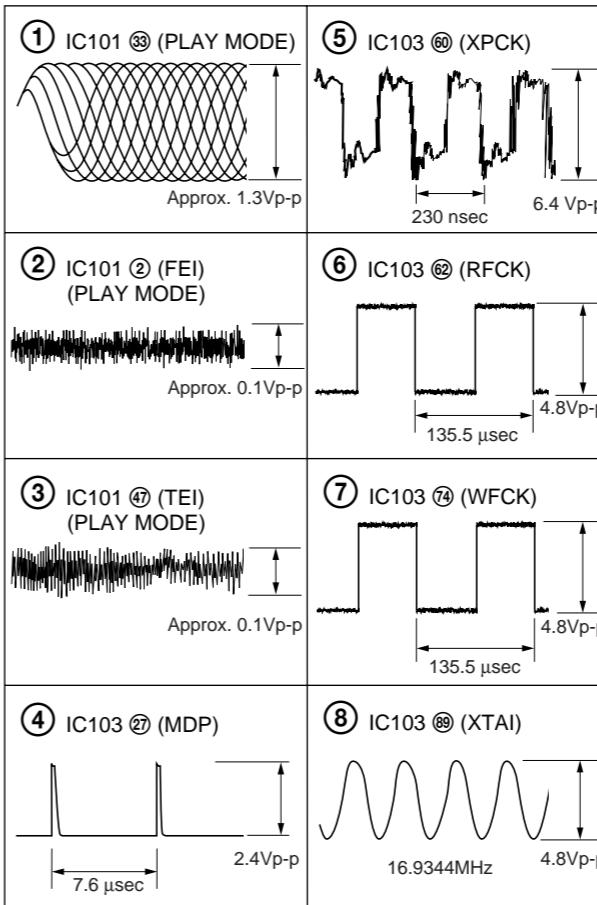
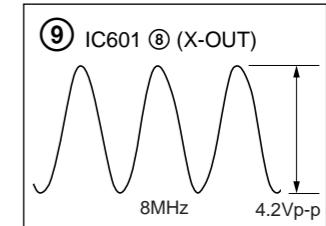
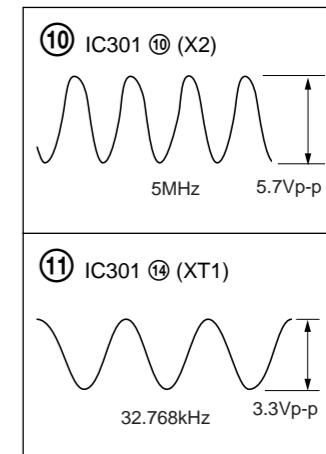
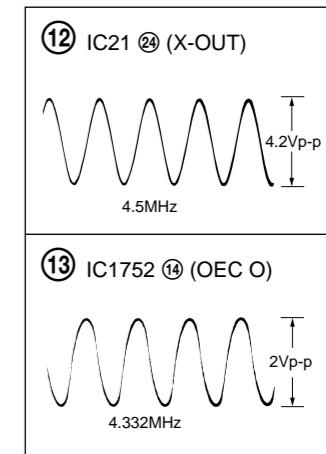
Note:
The components identified by mark \triangle or dotted line with mark \triangle are critical for safety.
Replace only with part number specified.

Note:
Les composants identifiés par une marque \triangle sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

-  : B+ Line.
-  : B- Line.
-  : adjustment for repair.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
- Voltages are taken with a VOM (Input impedance 10 $M\Omega$). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope.
- Circled numbers refer to waveforms.
- Signal path.
 - \Rightarrow : FM
 - $\Rightarrow\Rightarrow$: VIDEO/MD
 - $\Rightarrow\Rightarrow$: PB (DECK A)
 - $\Rightarrow\Rightarrow$: PB (DECK B)
 - $\Rightarrow\Rightarrow$: REC (DECK B)
 - $\Rightarrow\Rightarrow$: CD
 - $\Rightarrow\Rightarrow$: PHONO
- Abbreviation
 - CND : Canadian
 - EE : East European
 - AUS : Australian
 - AR : Argentine
 - MX : Mexican
 - SAF : South African

For printed wiring boards.**Note:**

- — : parts extracted from the component side.
- \circ : Through hole.
- \triangle : internal component.
-  : Pattern from the side which enables seeing.

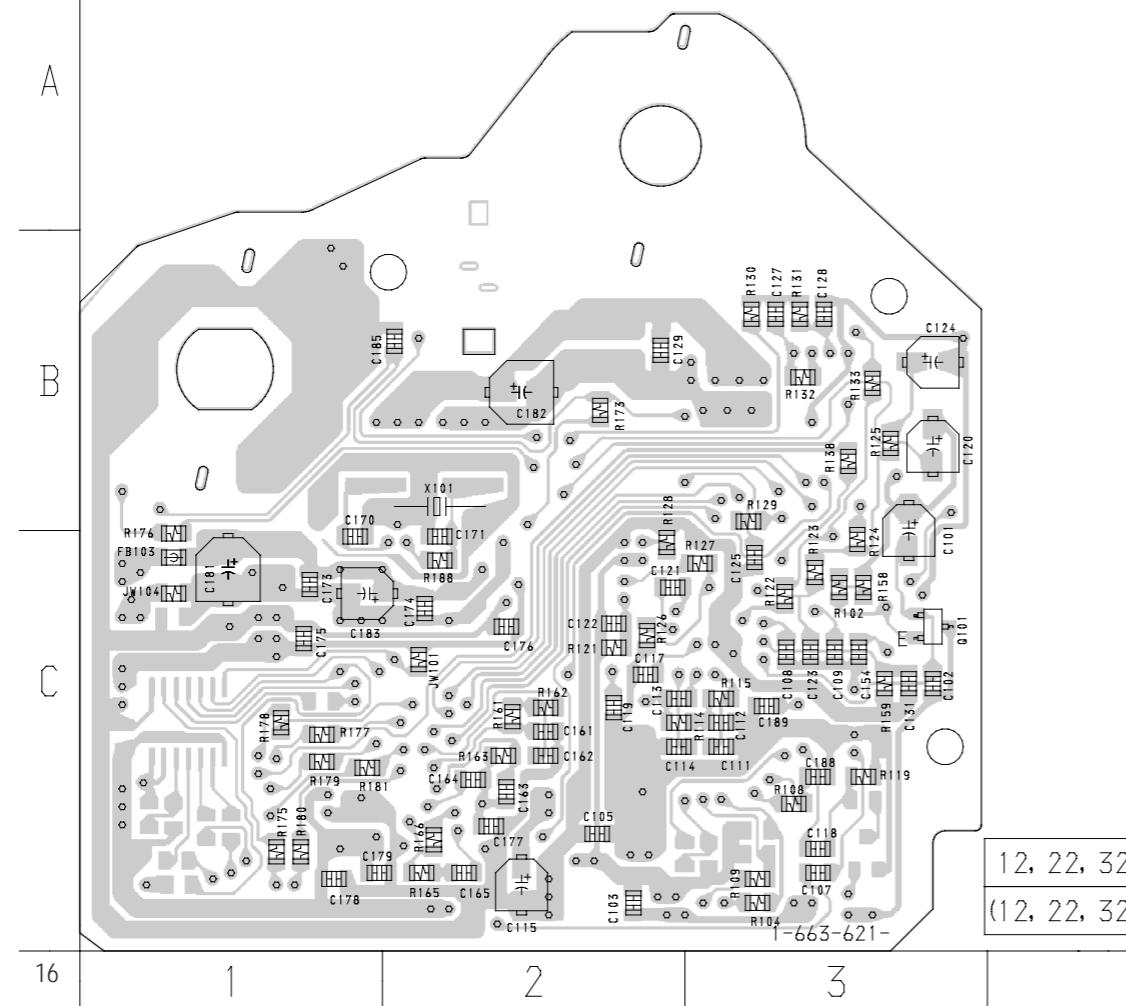
• WAVEFORM**- BD SECTION -****- PANEL SECTION -****- MAIN SECTION -****- TUNER SECTION -**

6-3. PRINTED WIRING BOARD – BD SECTION – • See page 25 for Circuit Boards Location.

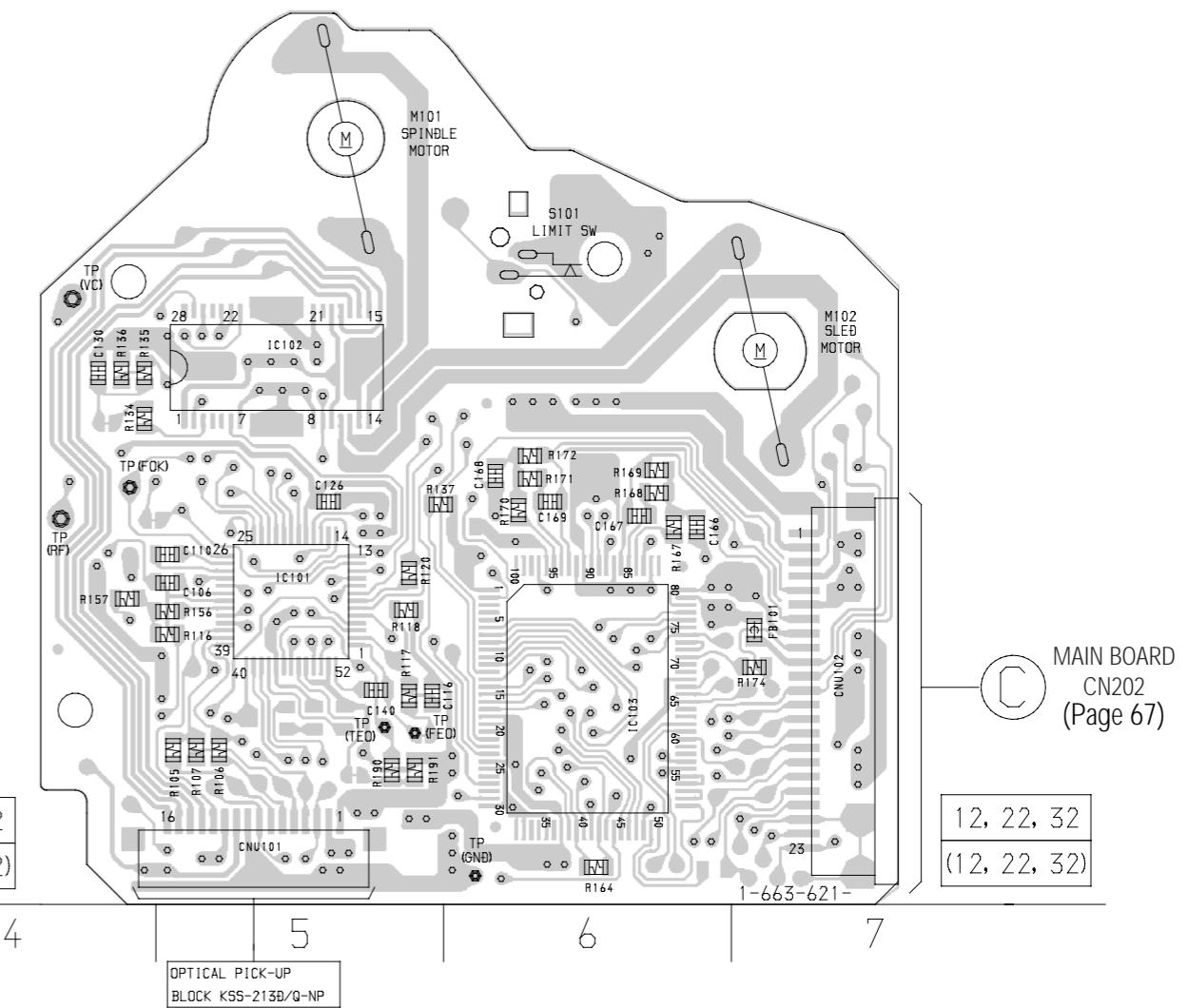
• Semiconductor Location

Ref. No.	Location
IC101	C-5
IC102	B-5
IC103	C-6
Q101	C-3

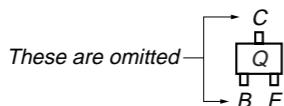
【 BD BOARD 】 (Component Side)



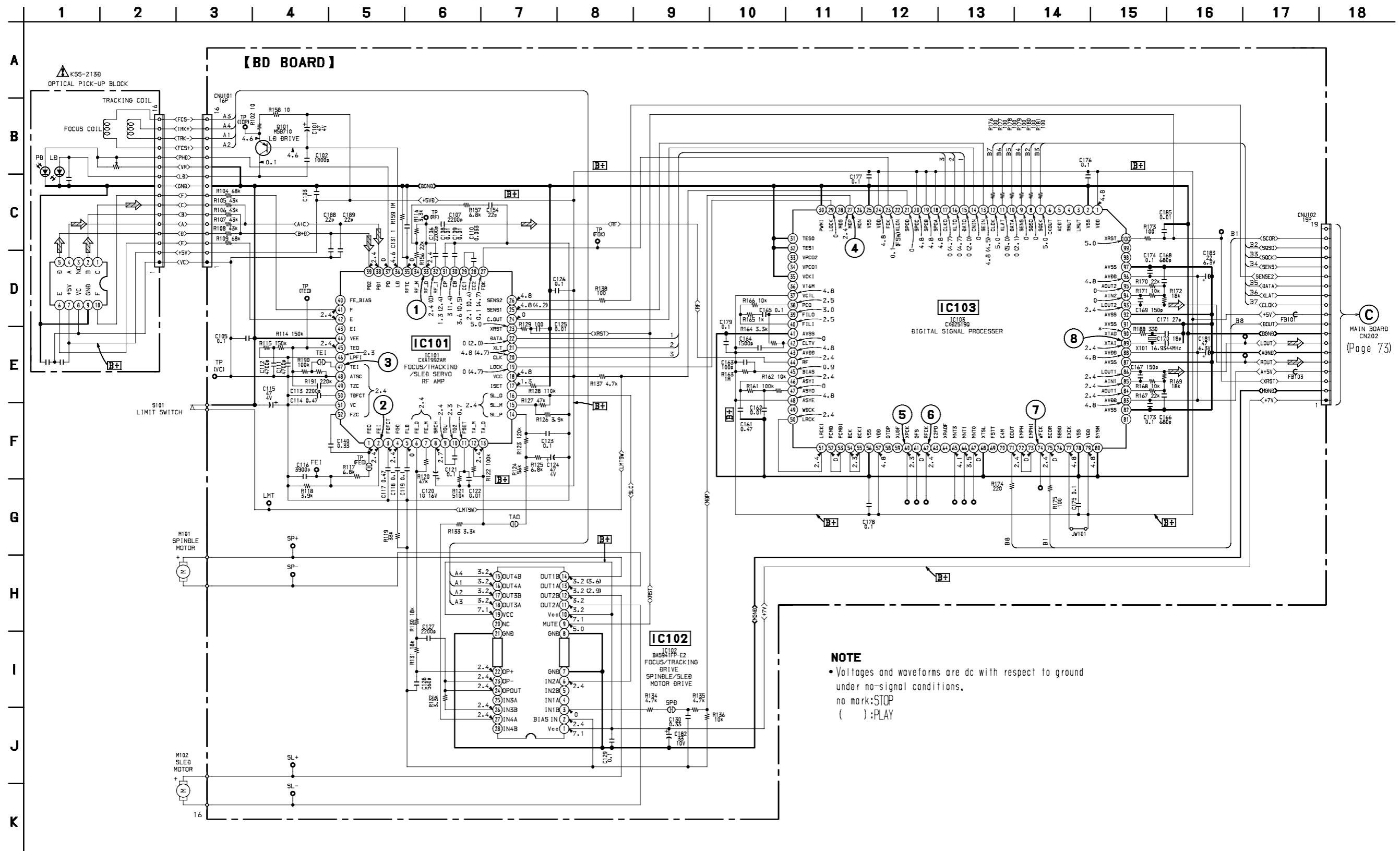
【 BD BOARD 】 (Conductor Side)

MAIN BOARD
CN202
(Page 67)

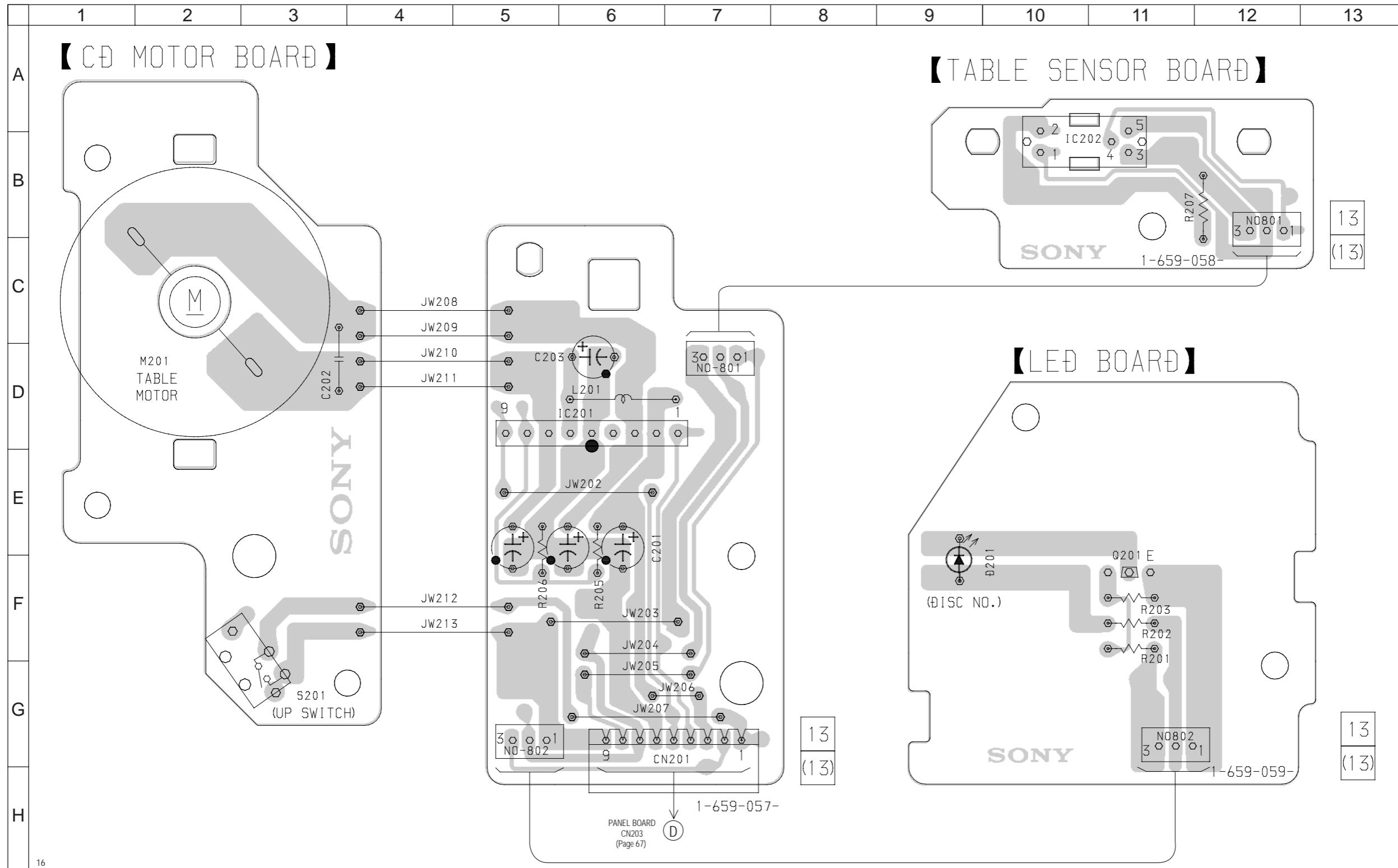
• Indication of transistor



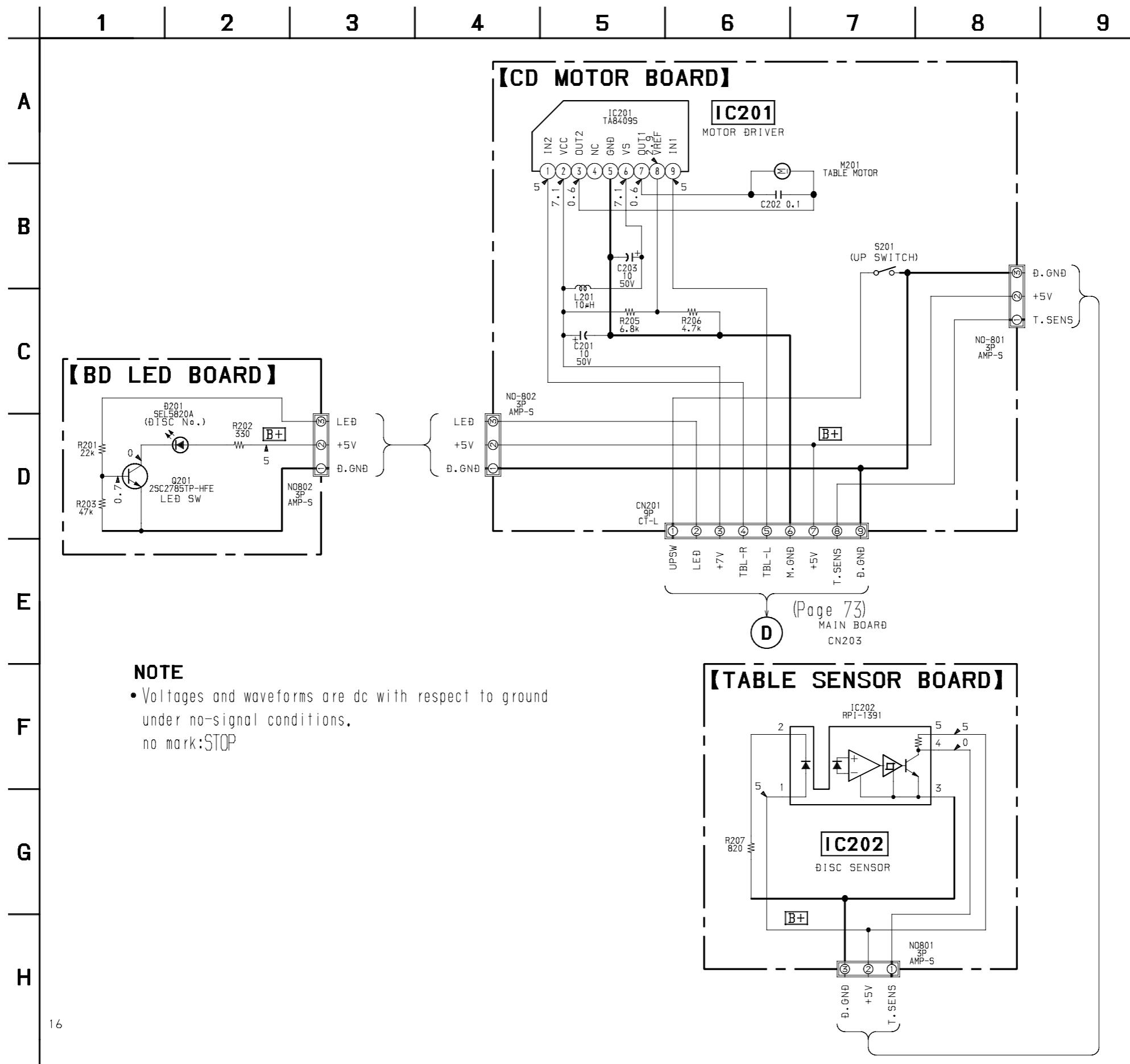
6-4. SCHEMATIC DIAGRAM – BD SECTION – • See page 34 for Waveforms. • See page 79 for IC Block Diagrams.



6-5. PRINTED WIRING BOARD – CD MOTOR SECTION – • See page 25 for Circuit Boards Location.

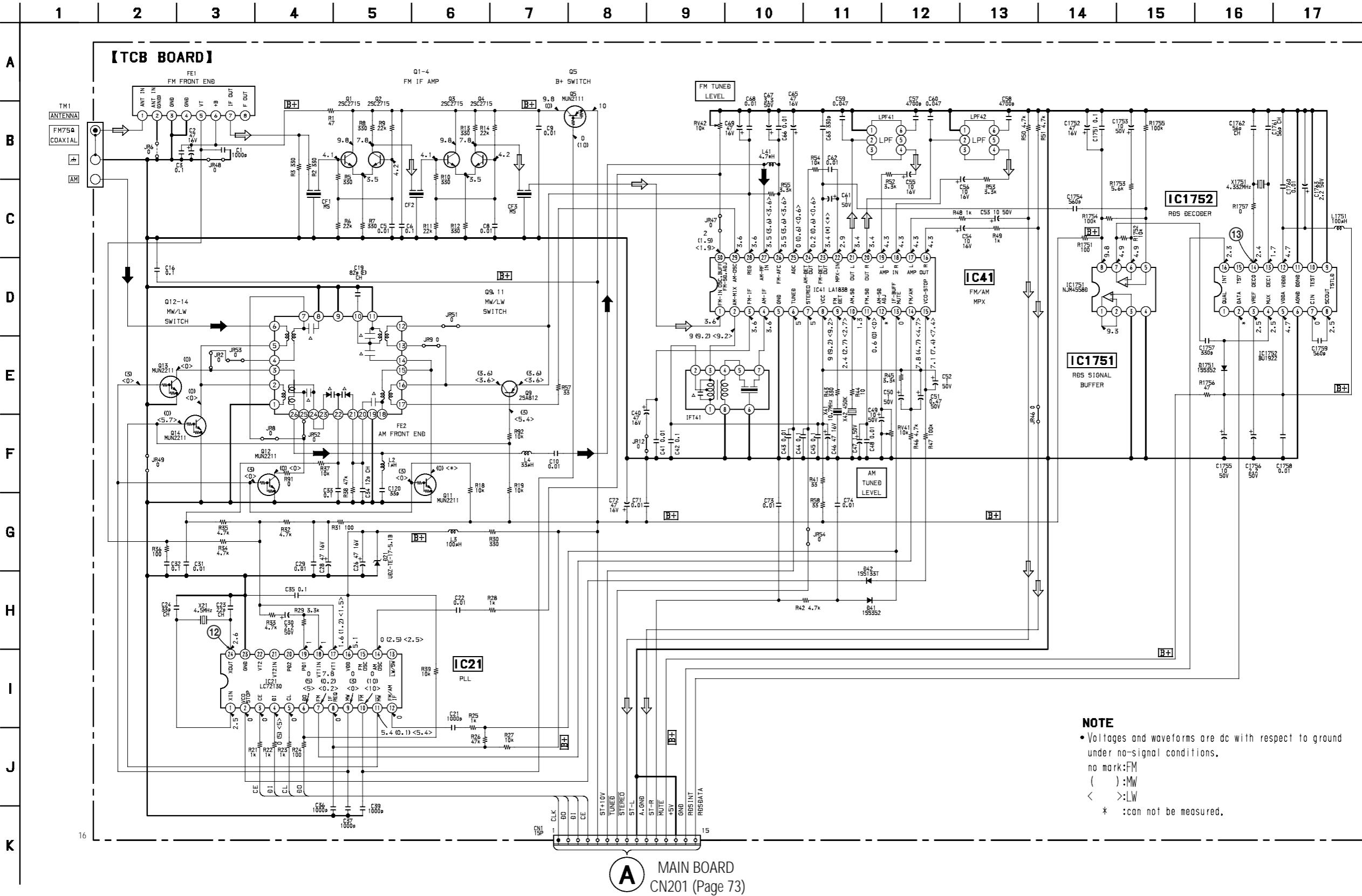


6-6. SCHEMATIC DIAGRAM – CD MOTOR SECTION –



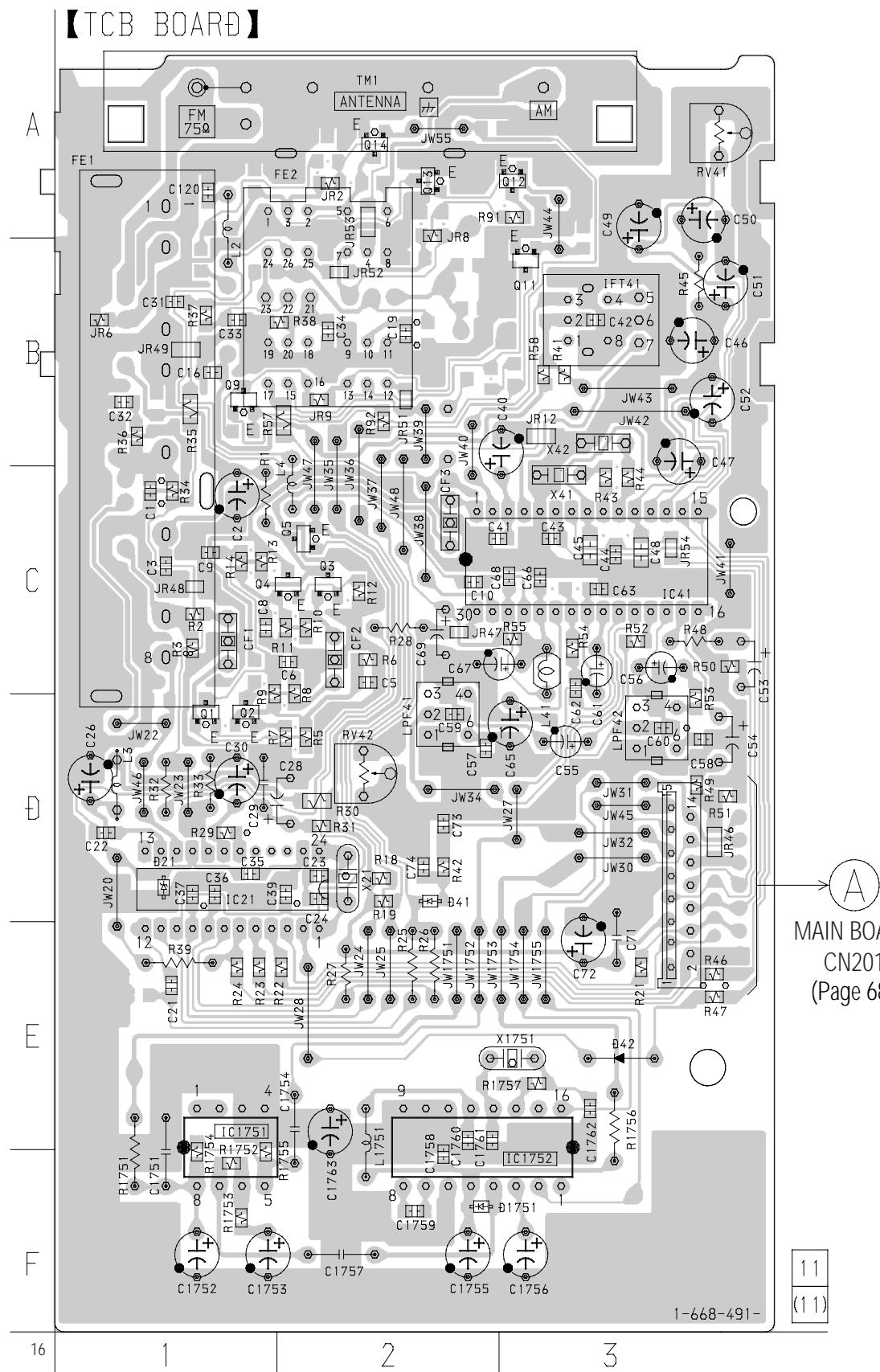
6-7. SCHEMATIC DIAGRAM – TUNER SECTION – (AEP, UK model)

• See page 34 for Waveforms. • See page 83 for IC Block Diagrams.

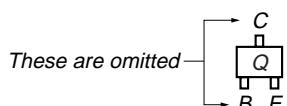


6-8. PRINTED WIRING BOARD – TUNER SECTION (AEP, UK Model) –

• See page 25 for Circuit Boards Location.



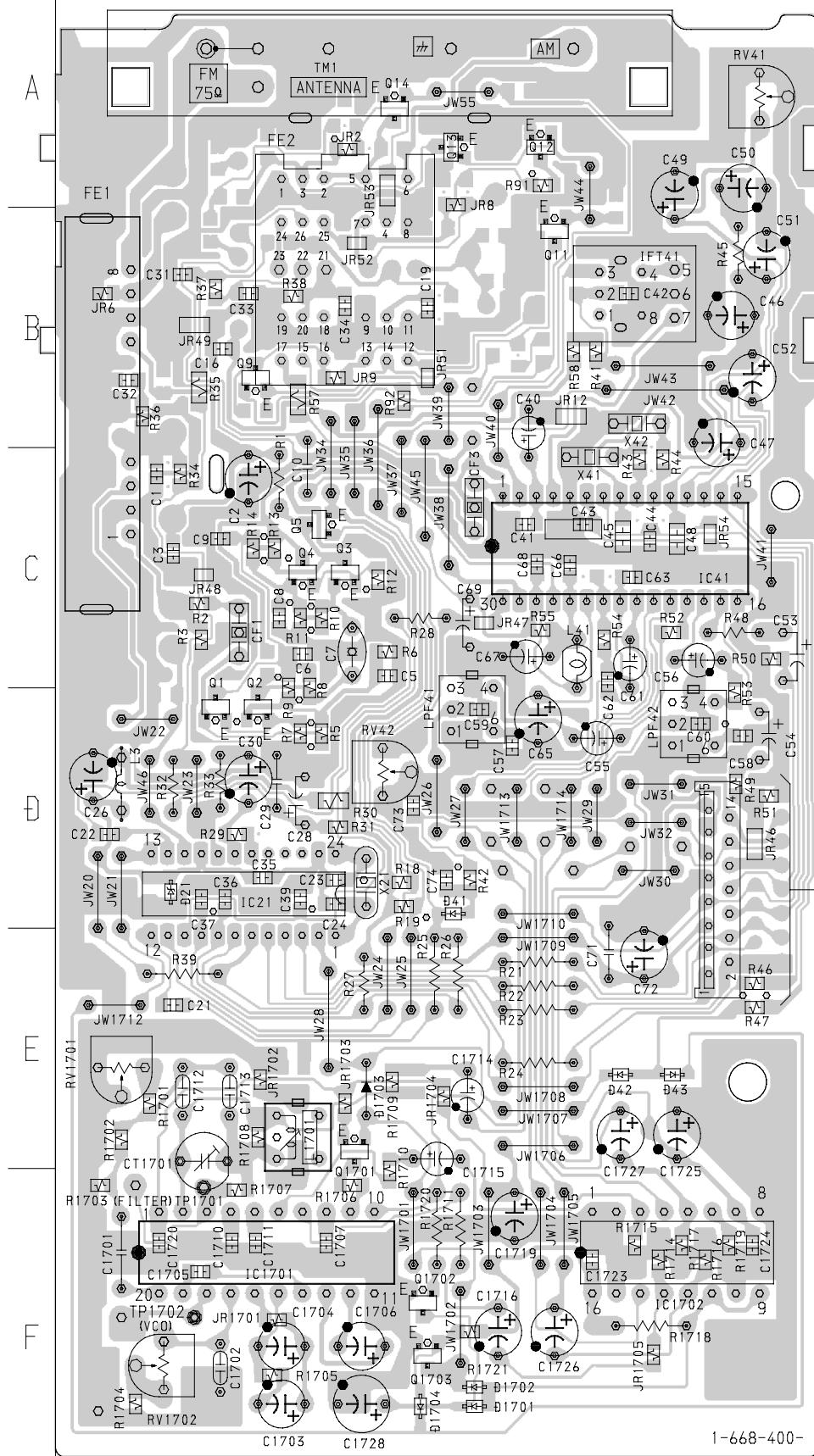
• Indication of transistor



6-9. PRINTED WIRING BOARD – TUNER SECTION (East European, CIS Model) –

- See page 25 for Circuit Boards Location.

〔 TCB BOARD 〕



- Semiconductor Location

Ref. No.	Location
D1	D-1
D41	D-2
D42	E-3
D43	E-3
D1701	F-2
D1702	F-2
D1703	E-2
D1704	F-2
IC21	D-1
IC41	C-3
IC1701	F-1
IC1702	F-3
Q1	D-1
Q2	D-1
Q3	C-2
Q4	C-2
Q5	C-2
Q9	B-1
Q11	B-3
Q12	A-3
Q13	A-2
Q14	A-2
Q1701	E-2
Q1702	F-2
Q1703	F-2

MAIN BOARD
CN201
(Page 68)

1-668-400-

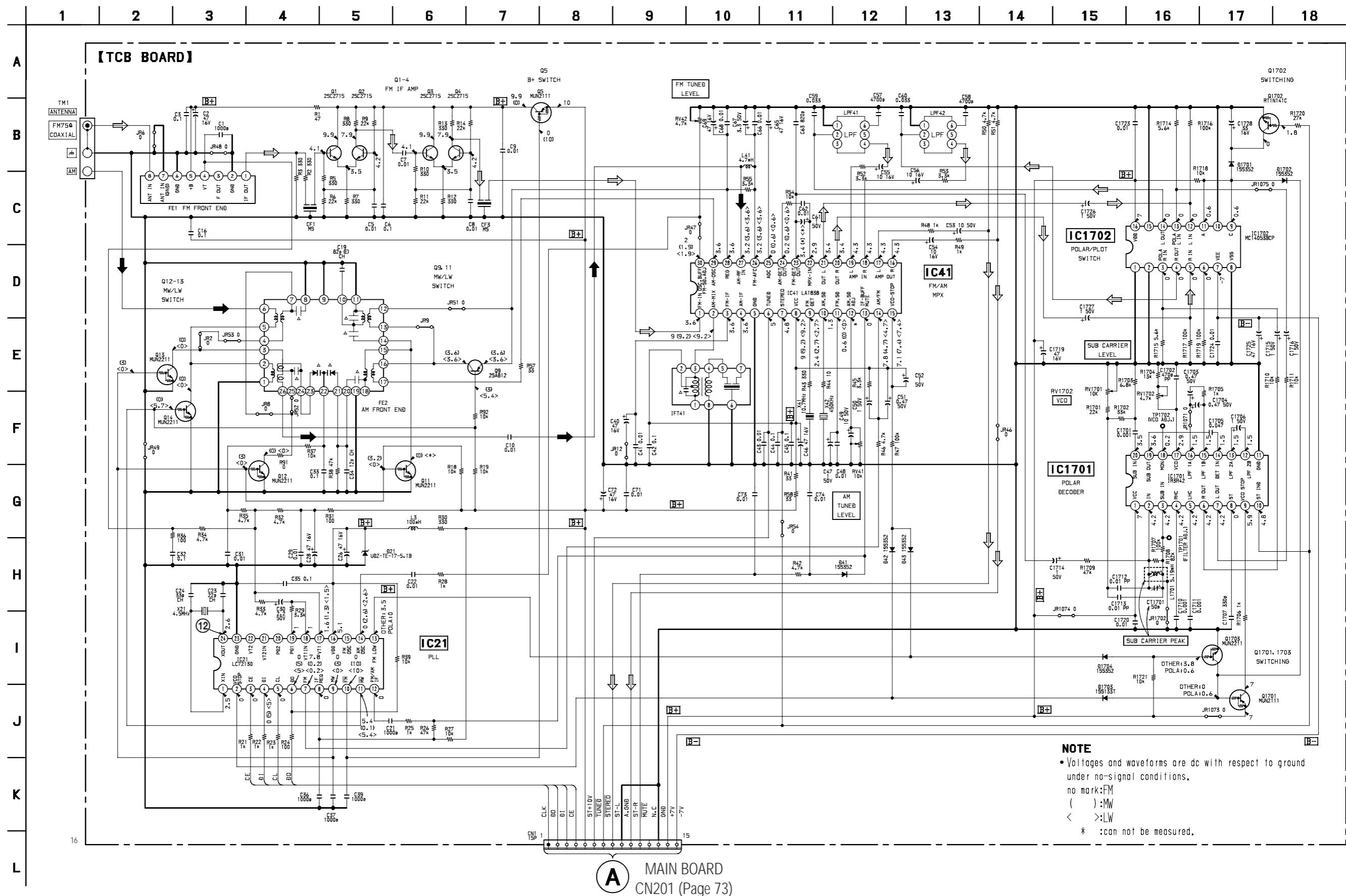
- Indication of transistor

These are omitted



6-10. SCHEMATIC DIAGRAM – TUNER SECTION – (East European, CIS model)

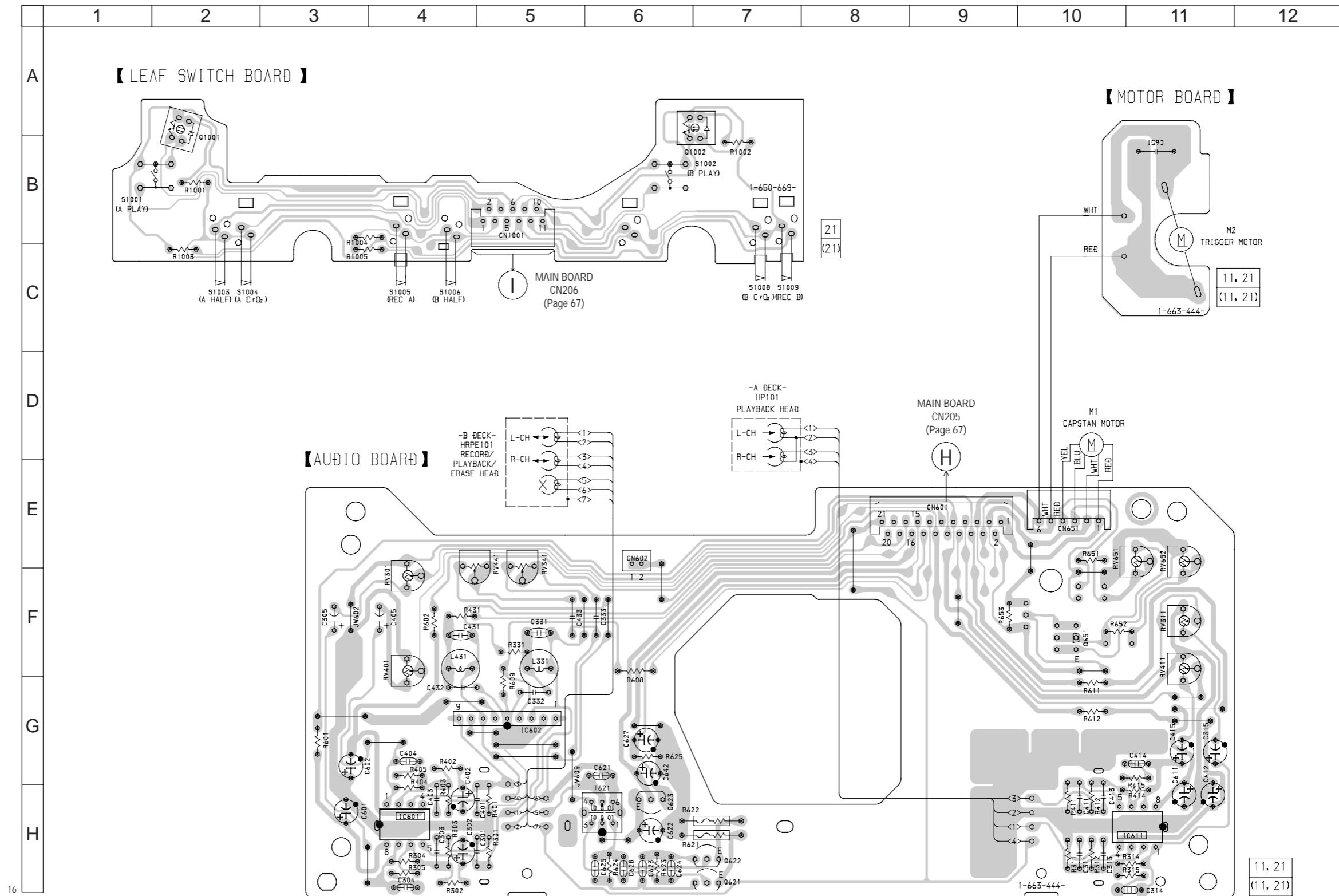
• See page 34 for Waveforms. • See page 83 for IC Block Diagrams.



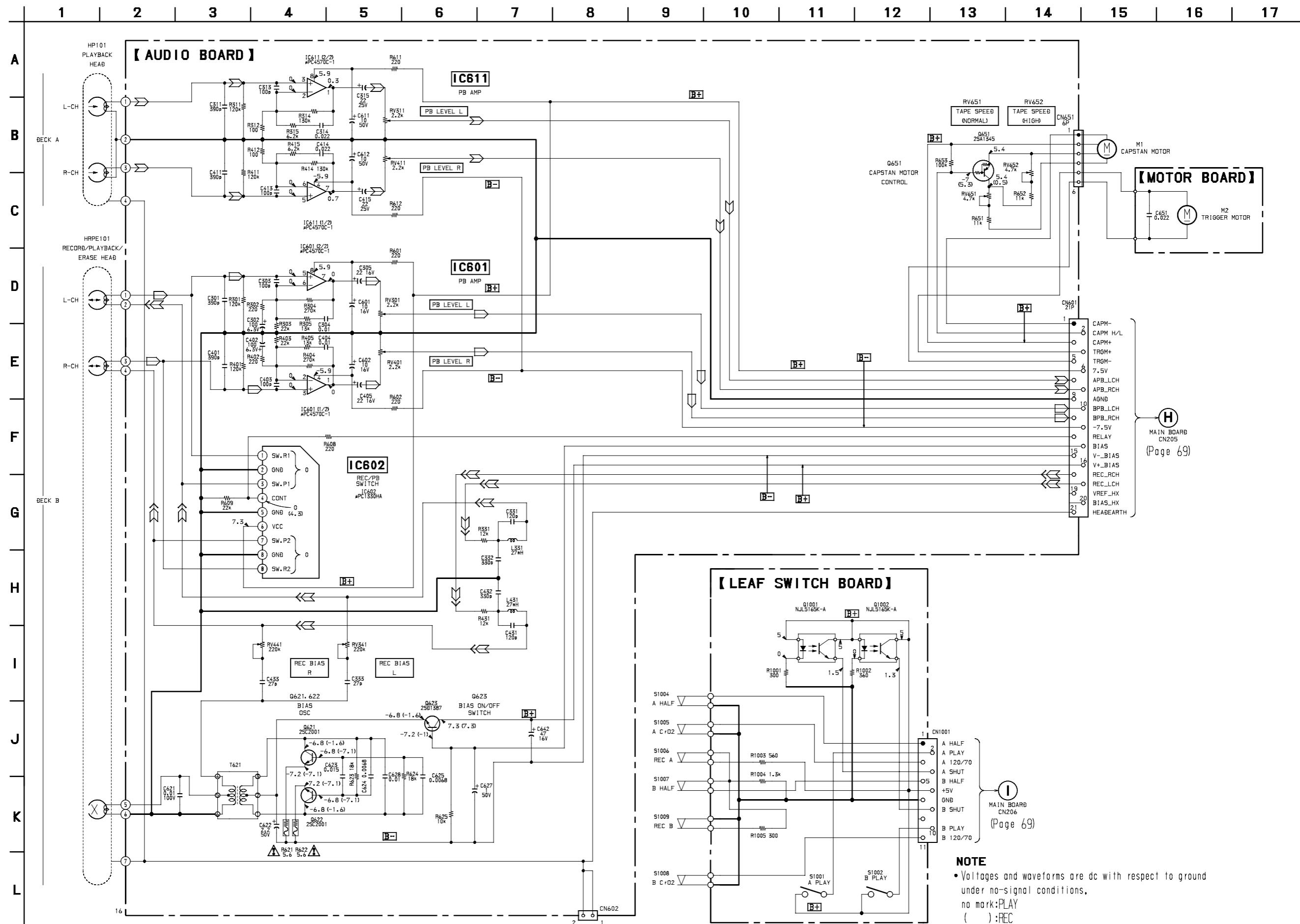
6-11. PRINTED WIRING BOARD – DECK SECTION – • See page 25 for Circuit Boards Location.

• Semiconductor Location

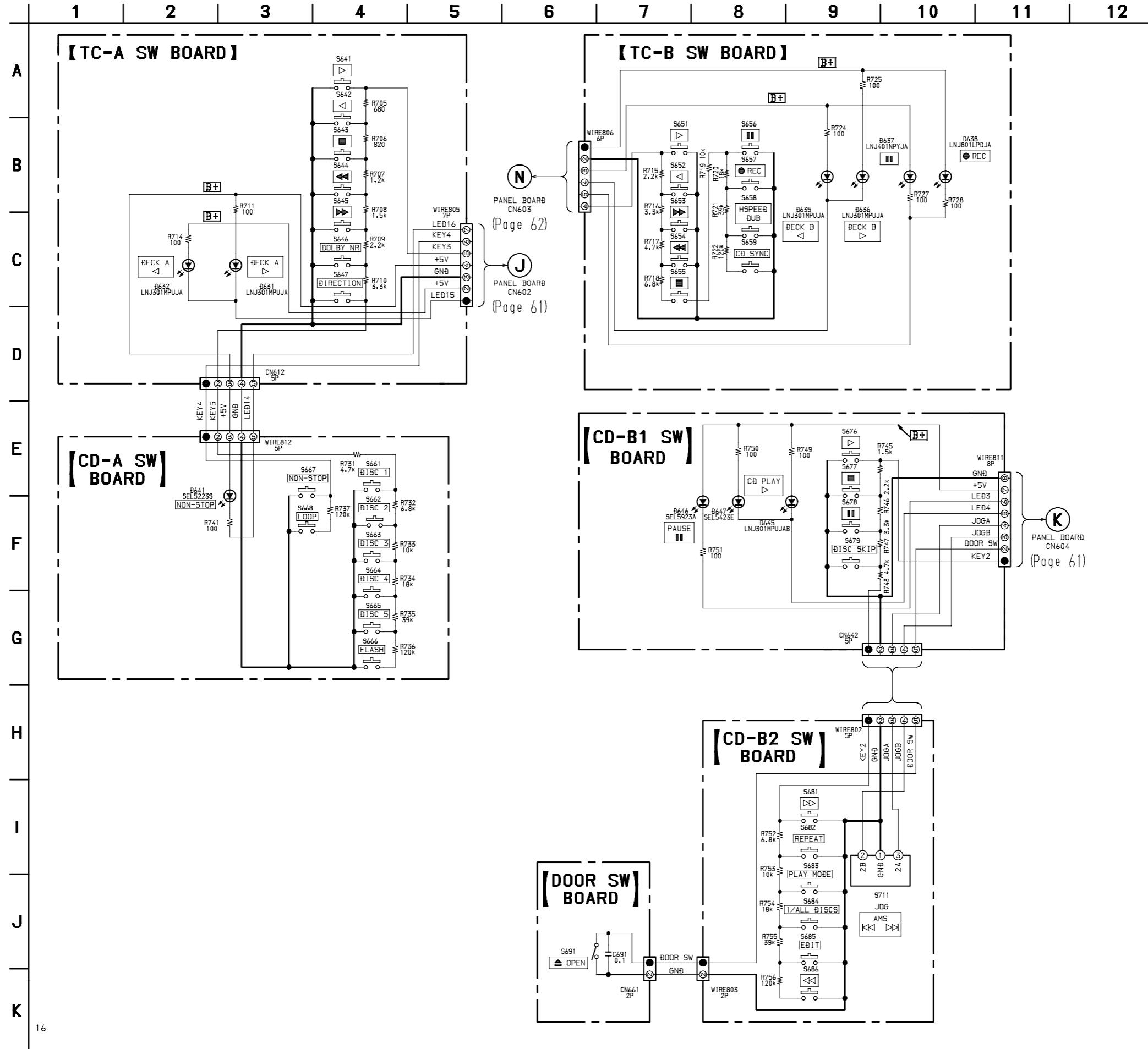
Ref. No.	Location
IC601	H-4
IC602	G-5
IC611	H-11
Q621	H-7
Q622	H-7
Q623	H-6
Q651	F-10
Q1001	A-2
Q1002	A-7



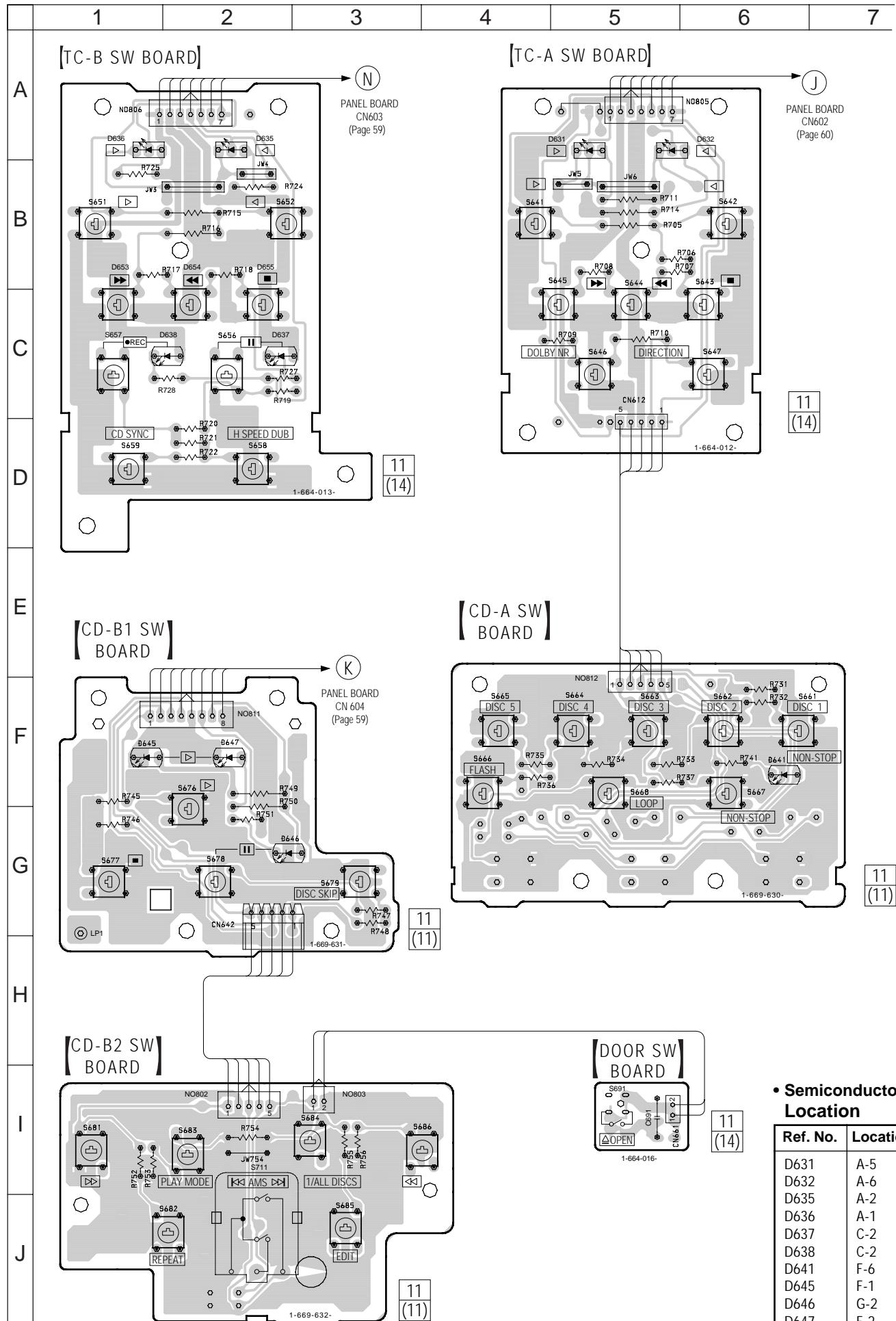
6-12. SCHEMATIC DIAGRAM – DECK SECTION –



6-13. SCHEMATIC DIAGRAM – SWITCH SECTION –



6-14. PRINTED WIRING BOARD – SWITCH SECTION – • See page 25 for Circuit Boards Location.

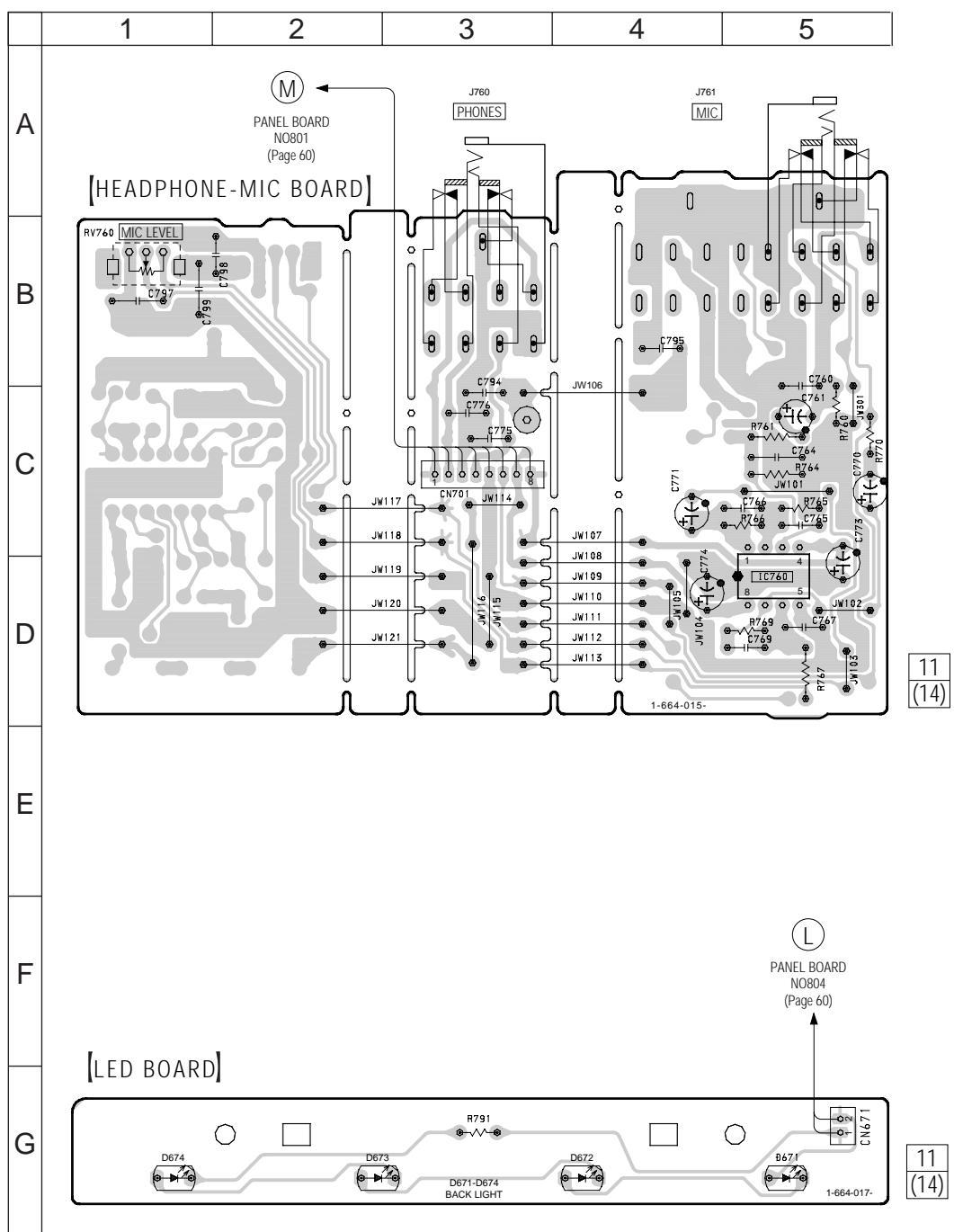


6-15. PRINTED WIRING BOARD – HEADPHONE-MIC SECTION –

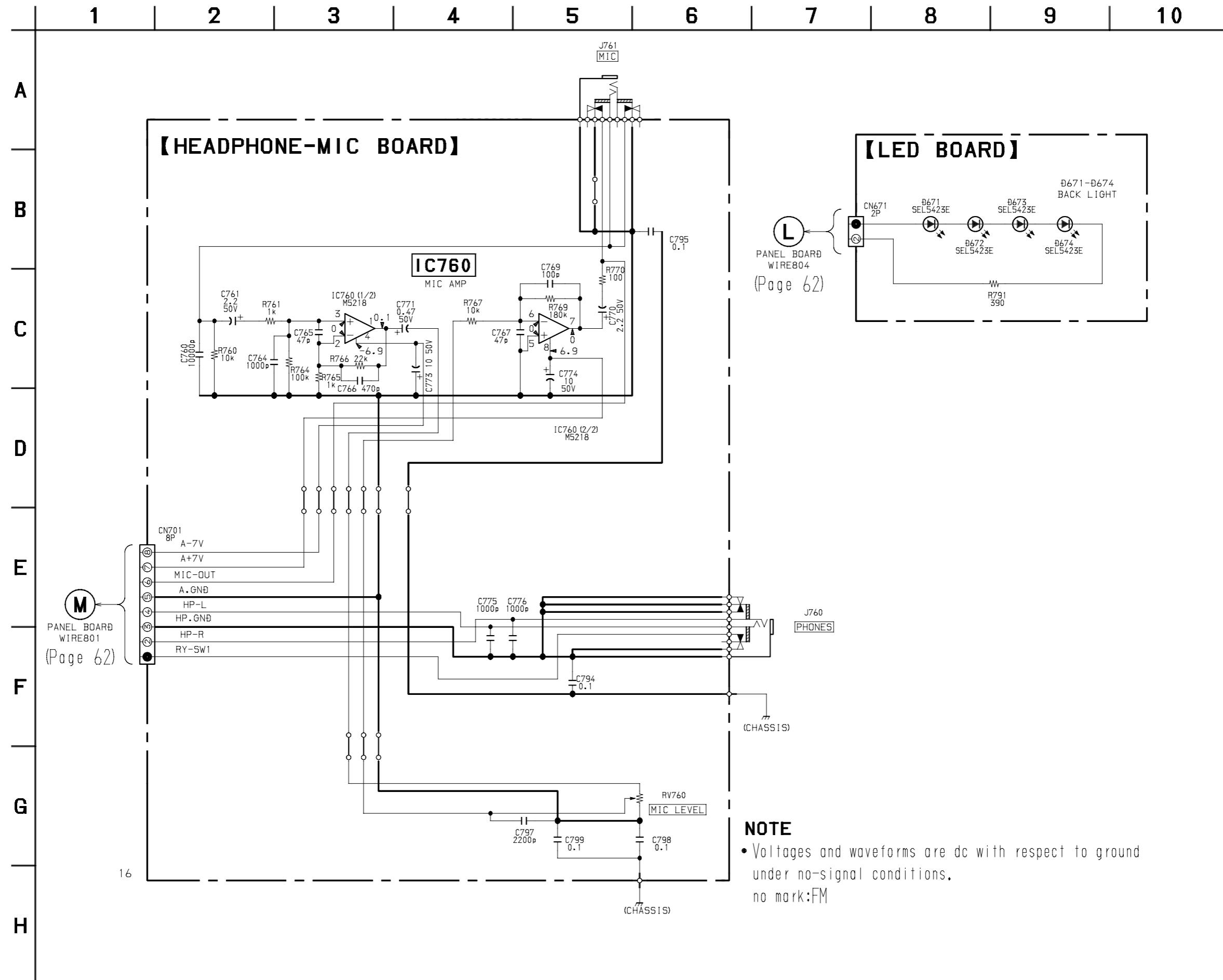
- See page 25 for Circuit Boards Location.

- Semiconductor Location

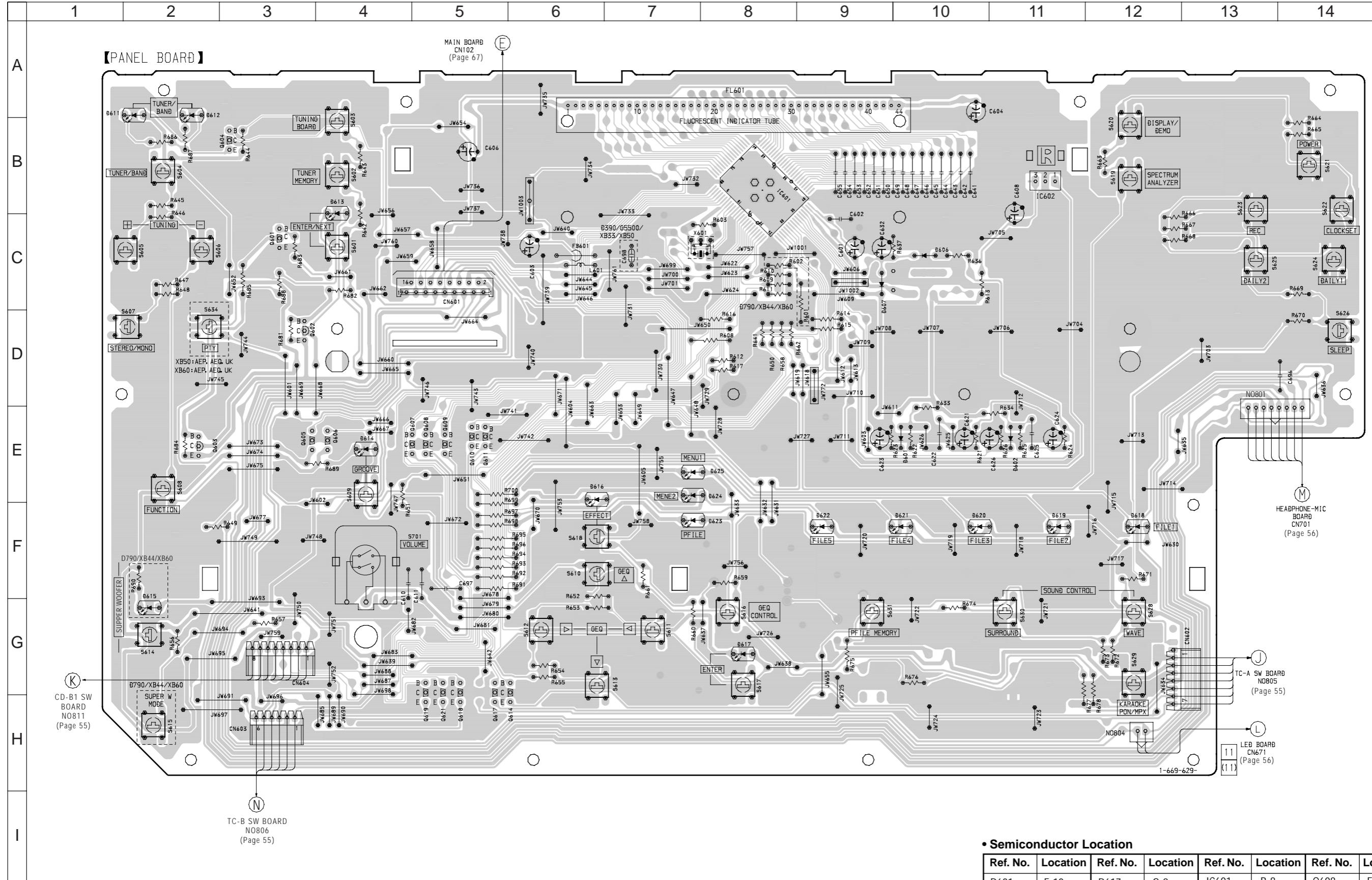
Ref. No.	Location
D671	G-5
D672	G-4
D673	G-2
D674	G-1
IC760	D-5



6-16. SCHEMATIC DIAGRAM – HEADPHONE-MIC SECTION –



6-17. PRINTED WIRING BOARD – PANEL SECTION – • See page 25 for Circuit Boards Location.

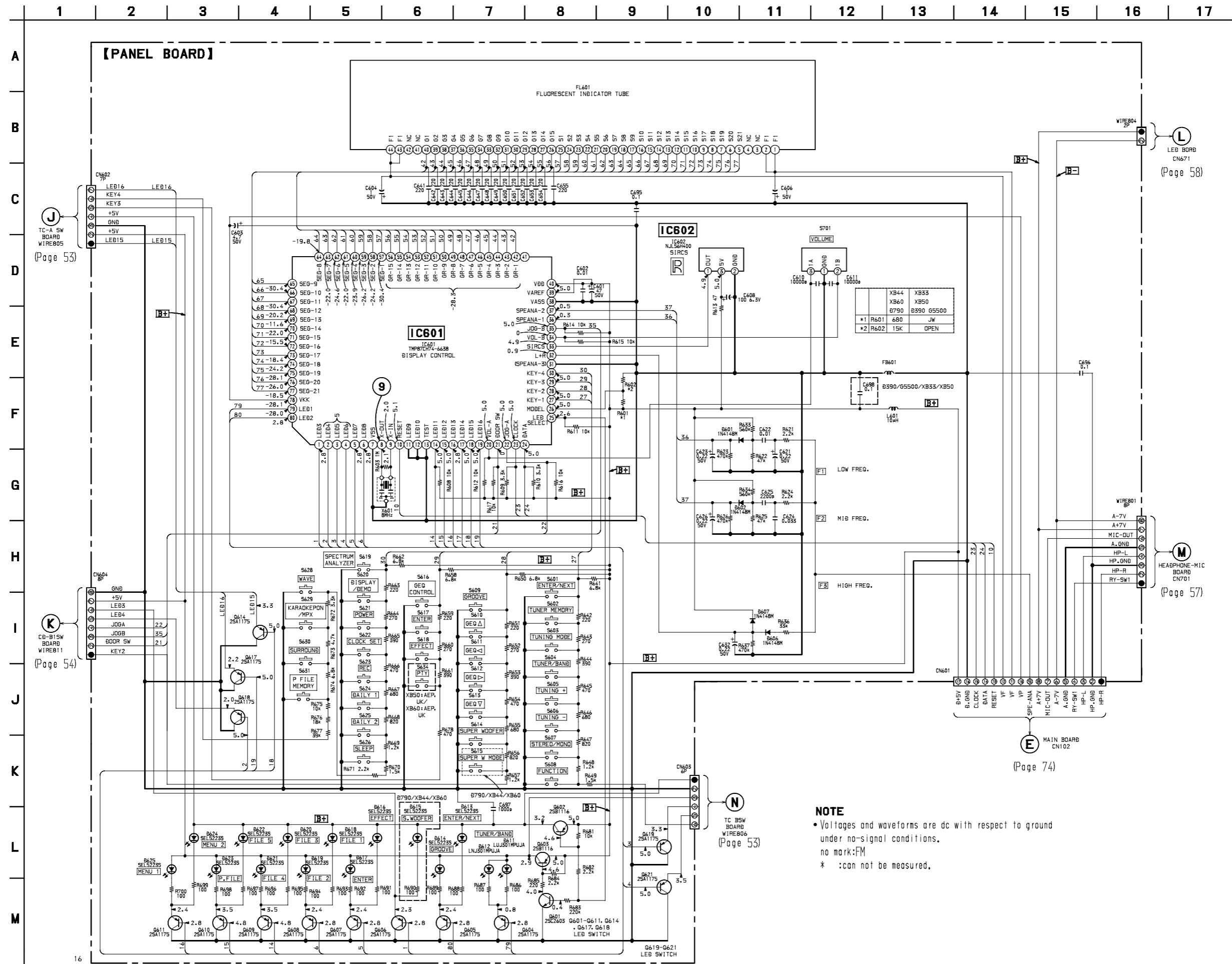


• Semiconductor Location

Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D601	E-10	D617	G-8	IC601	B-8	Q608	E-5
D602	E-11	D618	F-12	IC602	B-11	Q609	E-5
D606	C-10	D619	F-11			Q610	E-5
D607	C-9	D620	F-10	Q601	B-8	Q611	E-5
D611	A-2	D621	F-10	Q602	D-3	Q614	G-5
D612	A-2	D622	F-9	Q603	E-2	Q617	G-5
D613	C-4	D623	F-7	Q604	B-3	Q618	G-5
D614	E-4	D624	E-7	Q605	E-3	Q619	G-5
D615	G-2	D625	E-7	Q606	E-4	Q621	G-5
D616	E-6	Q607	E-4				

6-18. SCHEMATIC DIAGRAM – PANEL SECTION

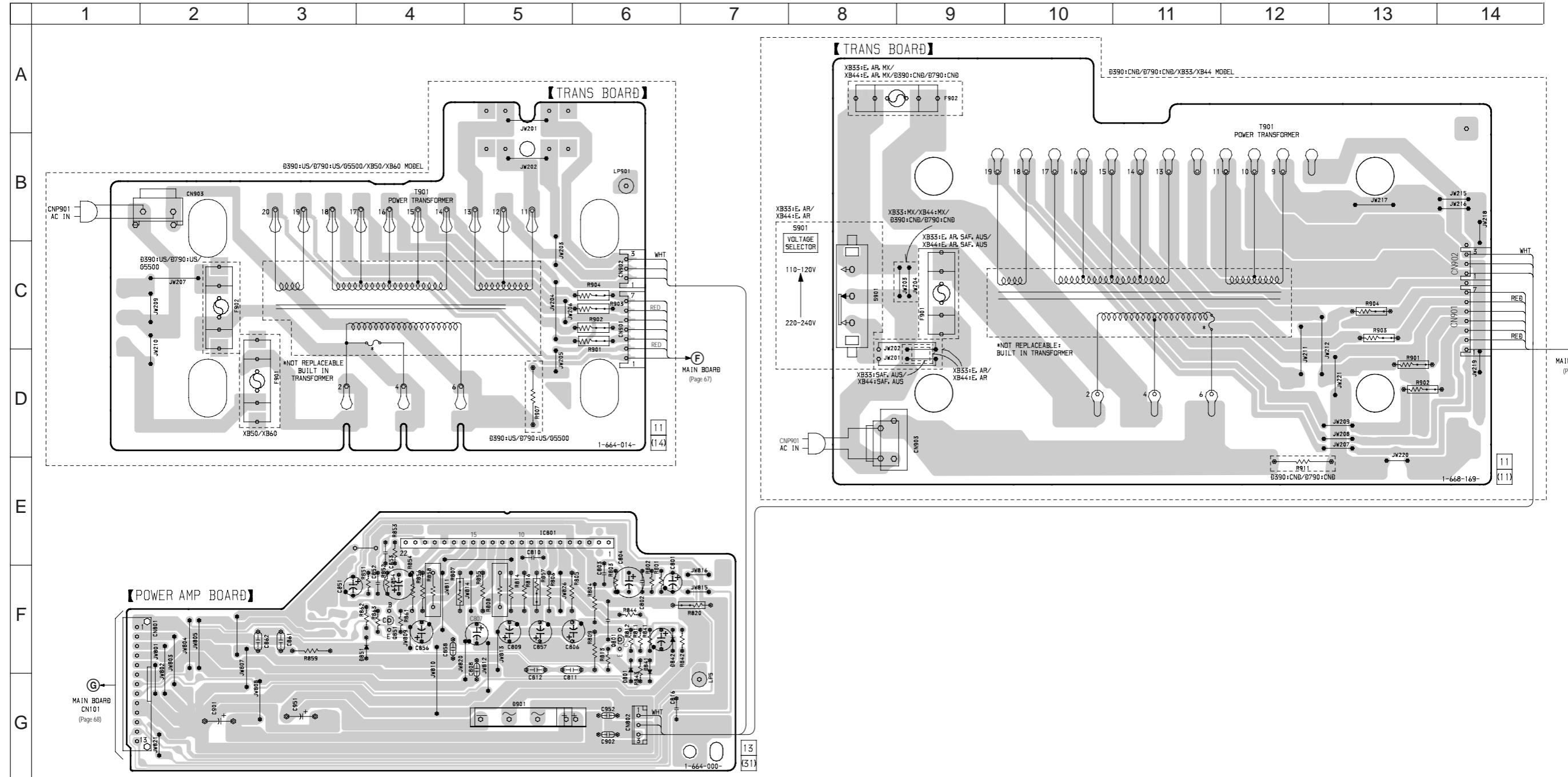
- See page 34 for Waveforms.
- See page 86 for IC Pin Functions.



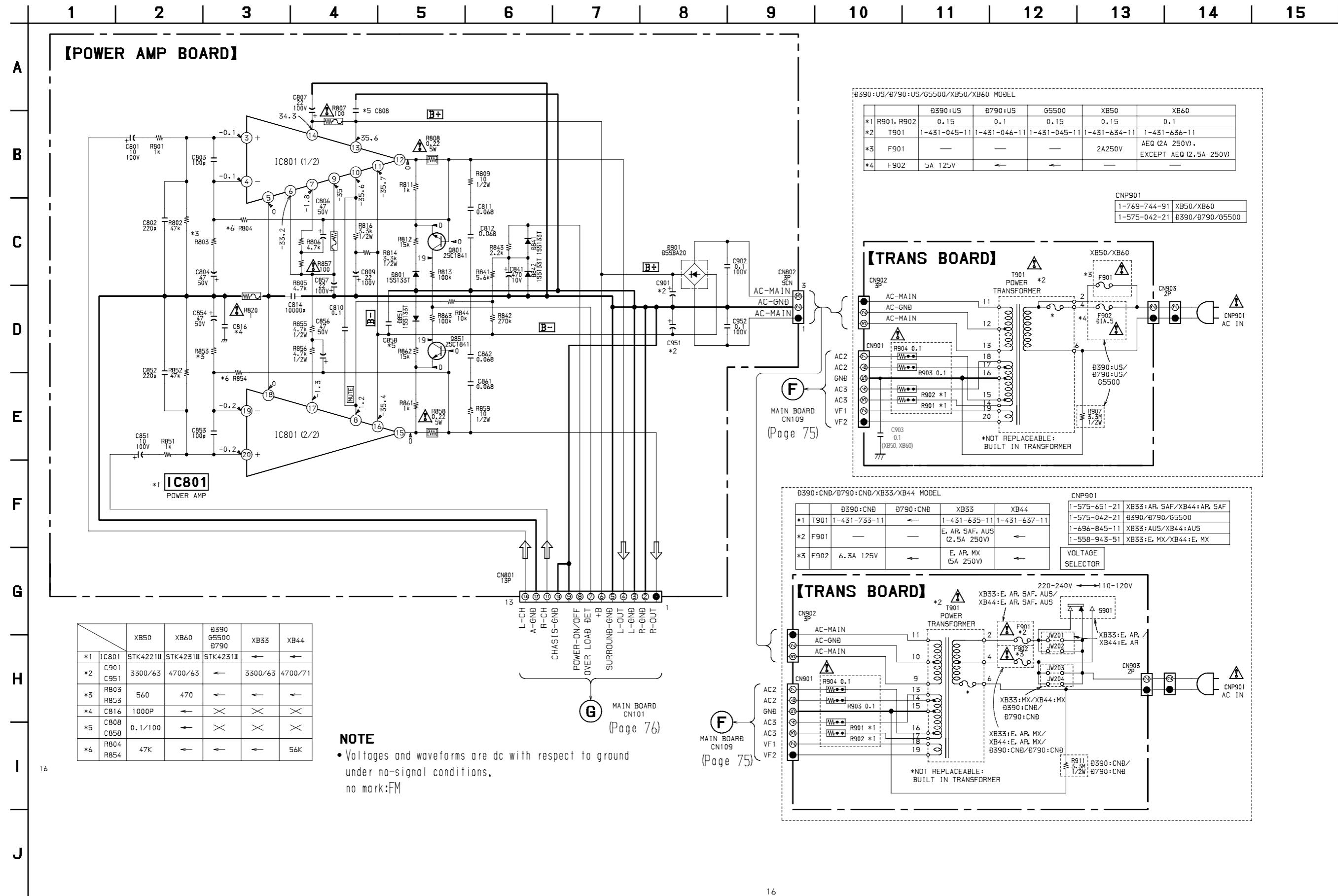
NOTE

- Voltages and waveforms are dc with respect to ground under no-signal conditions.
no mark:FM
 - * :can not be measured.

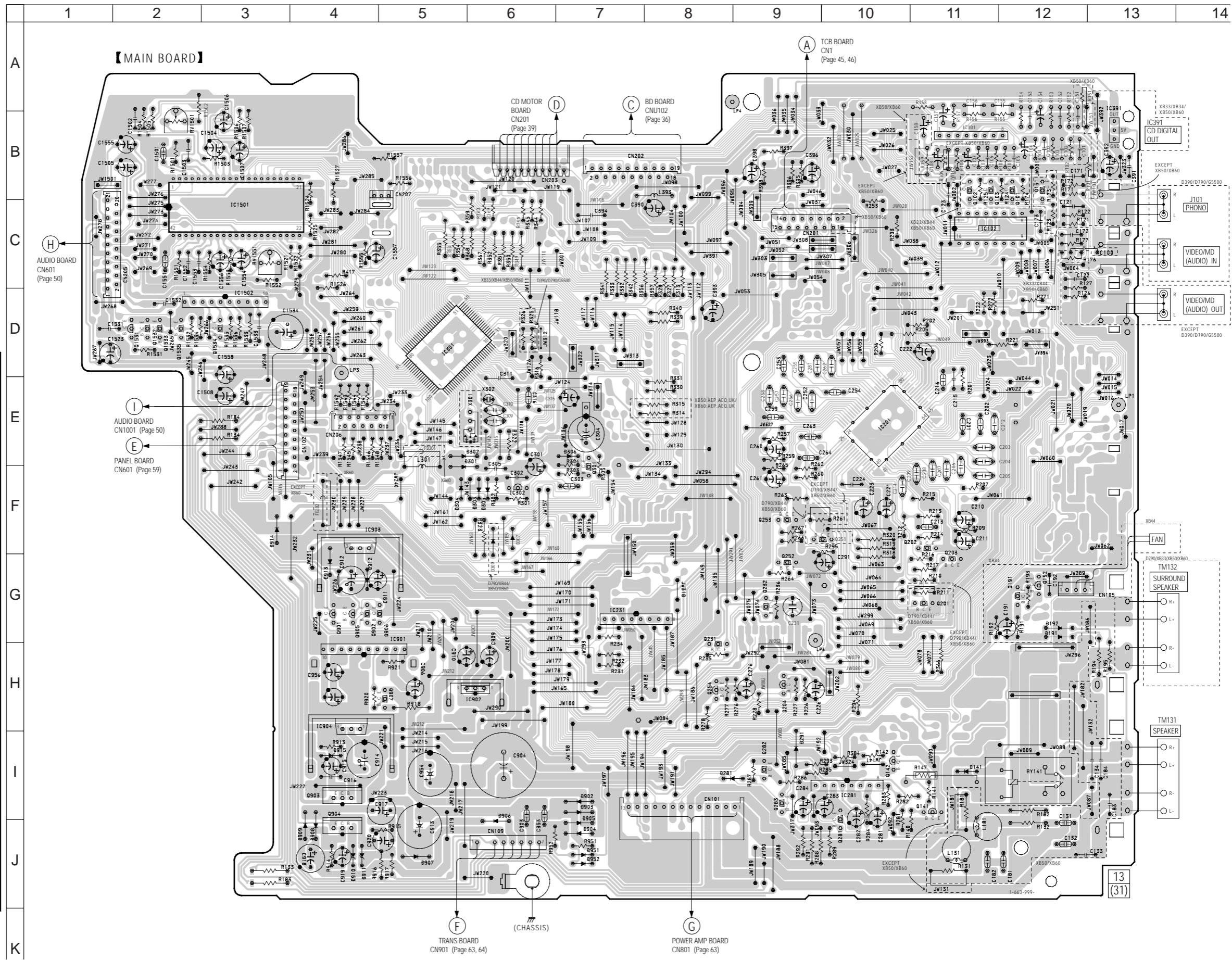
6-19. PRINTED WIRING BOARD – POWER SECTION – • See page 25 for Circuit Boards Location.



6-20. SCHEMATIC DIAGRAM – POWER SECTION –

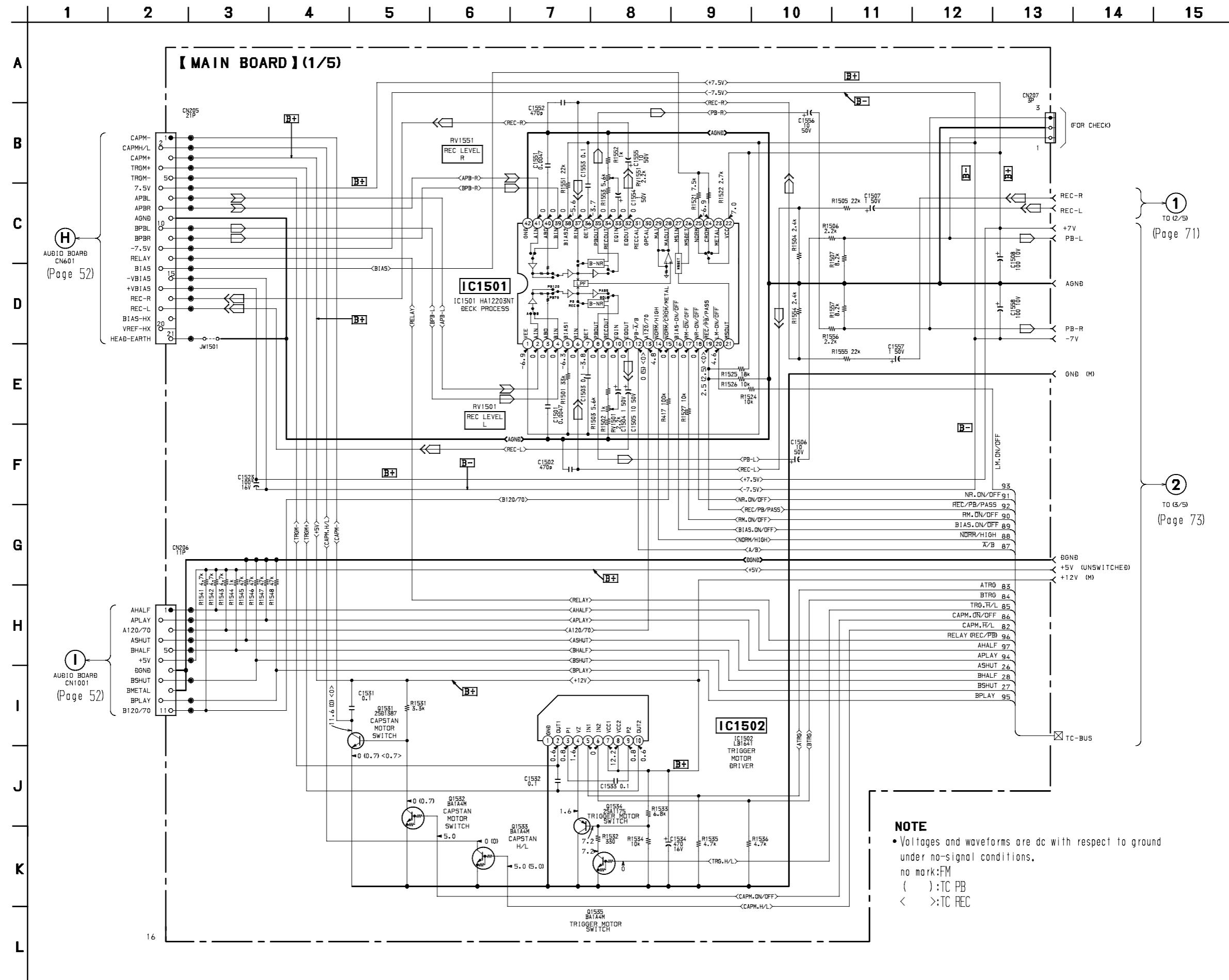


6-21. PRINTED WIRING BOARD – MAIN SECTION – • See page 25 for Circuit Boards Location.

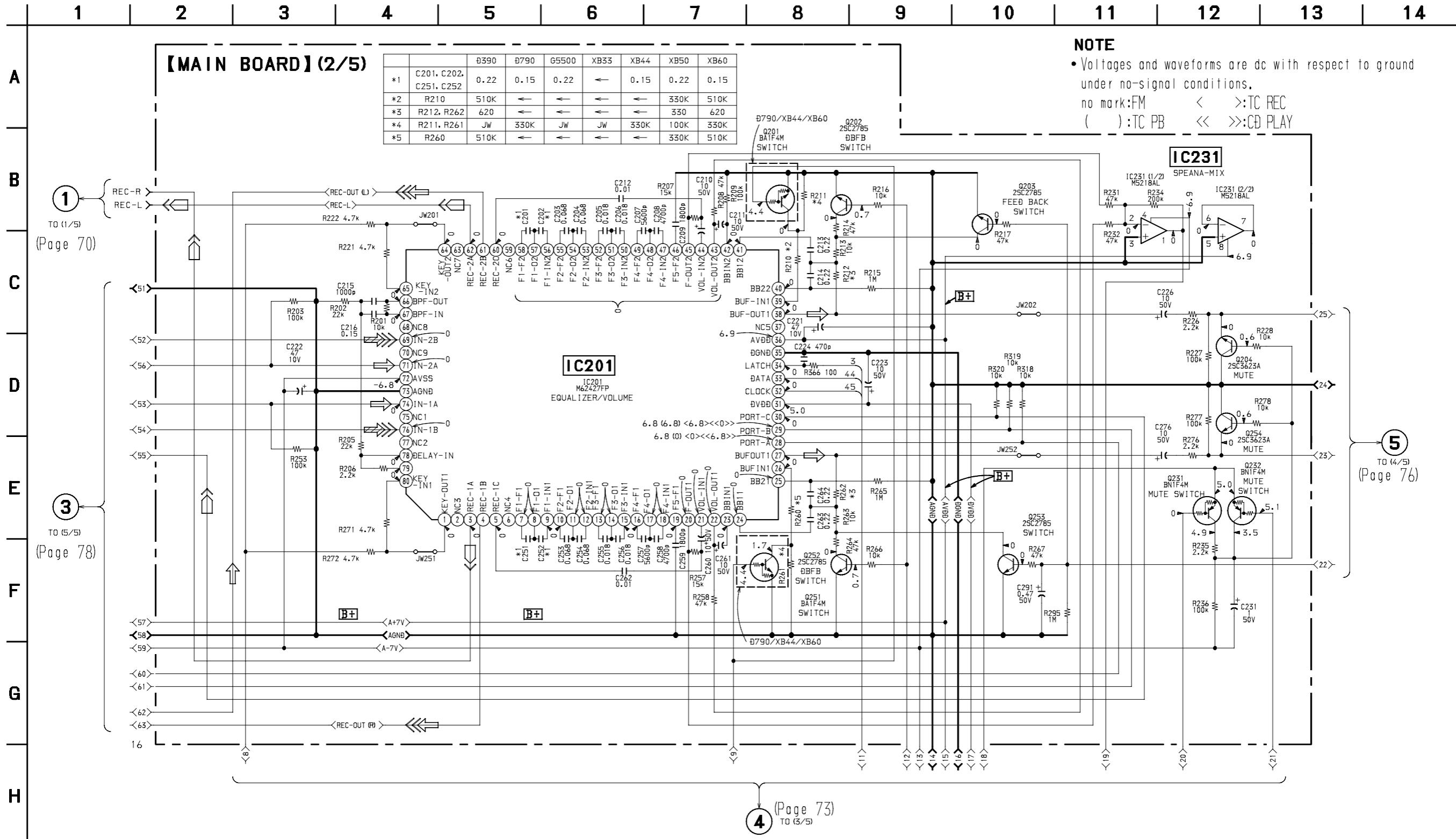


• See page 82 for IC Block Diagrams.

- See page 82 for IC Block Diagrams

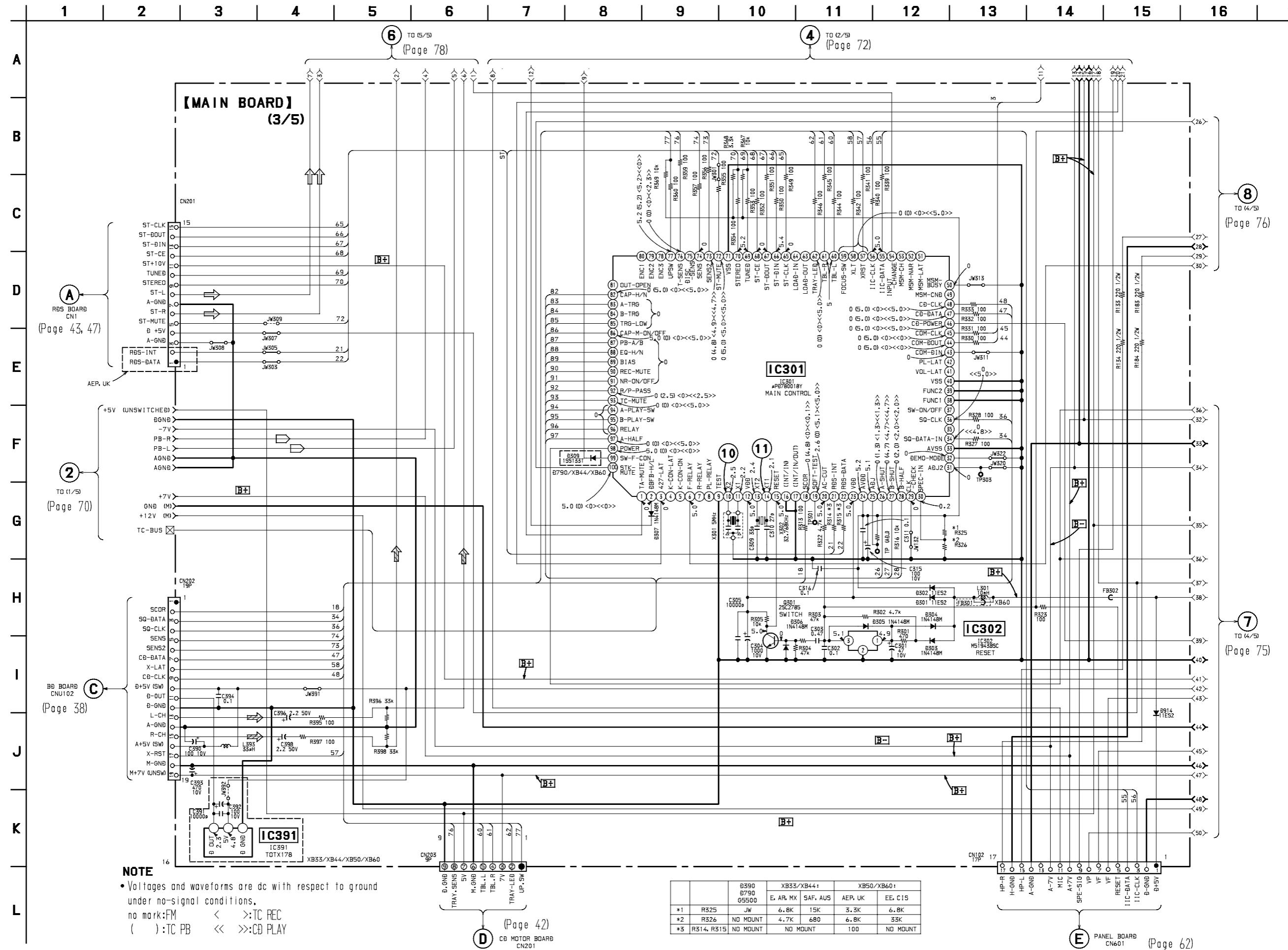


6-23. SCHEMATIC DIAGRAM – MAIN SECTION (2/5) – • See page 81 for IC Block Diagrams.



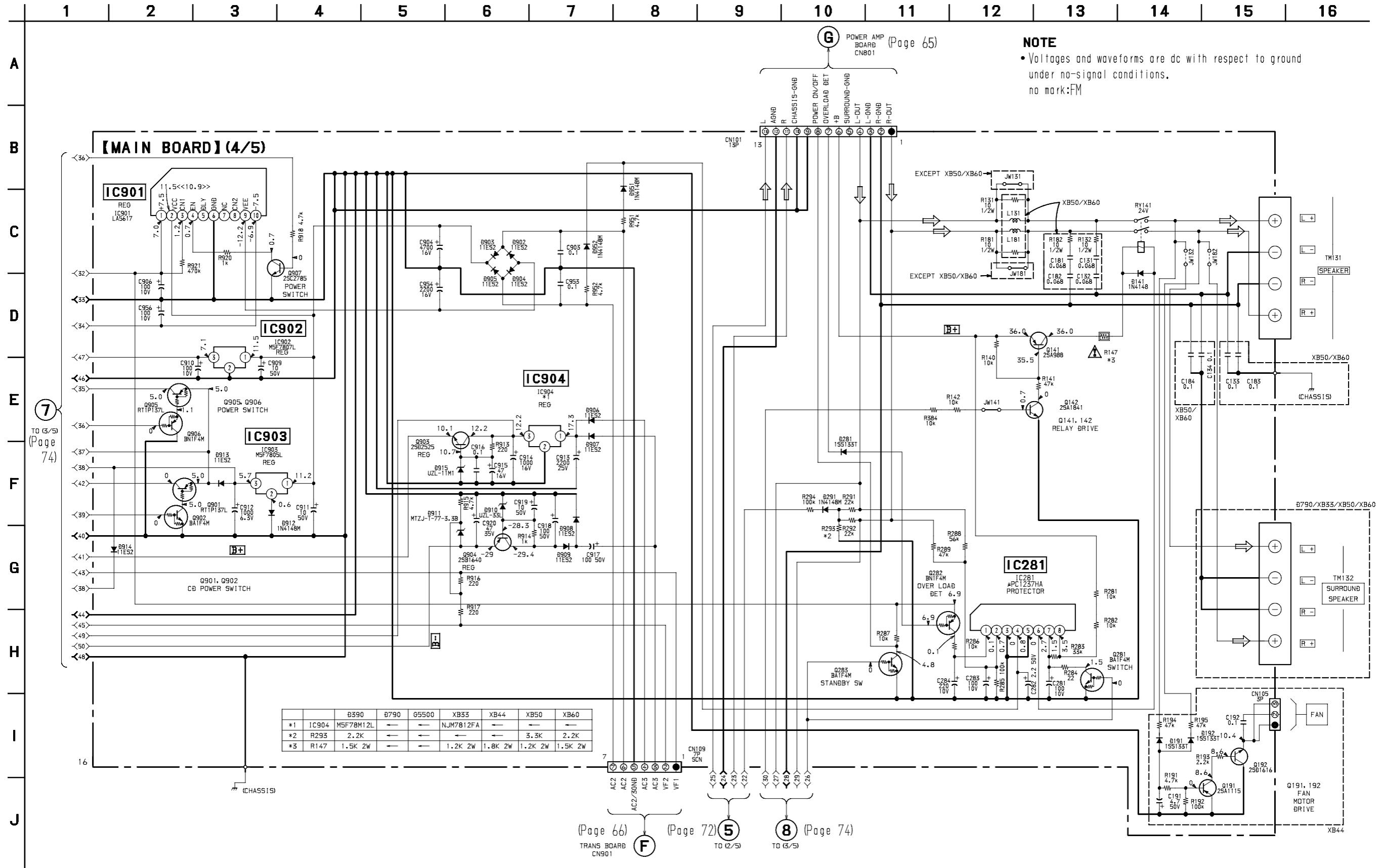
6-24. SCHEMATIC DIAGRAM – MAIN SECTION (3/5)

- See page 34 for Waveforms.
- See page 84 for IC Pin Functions.

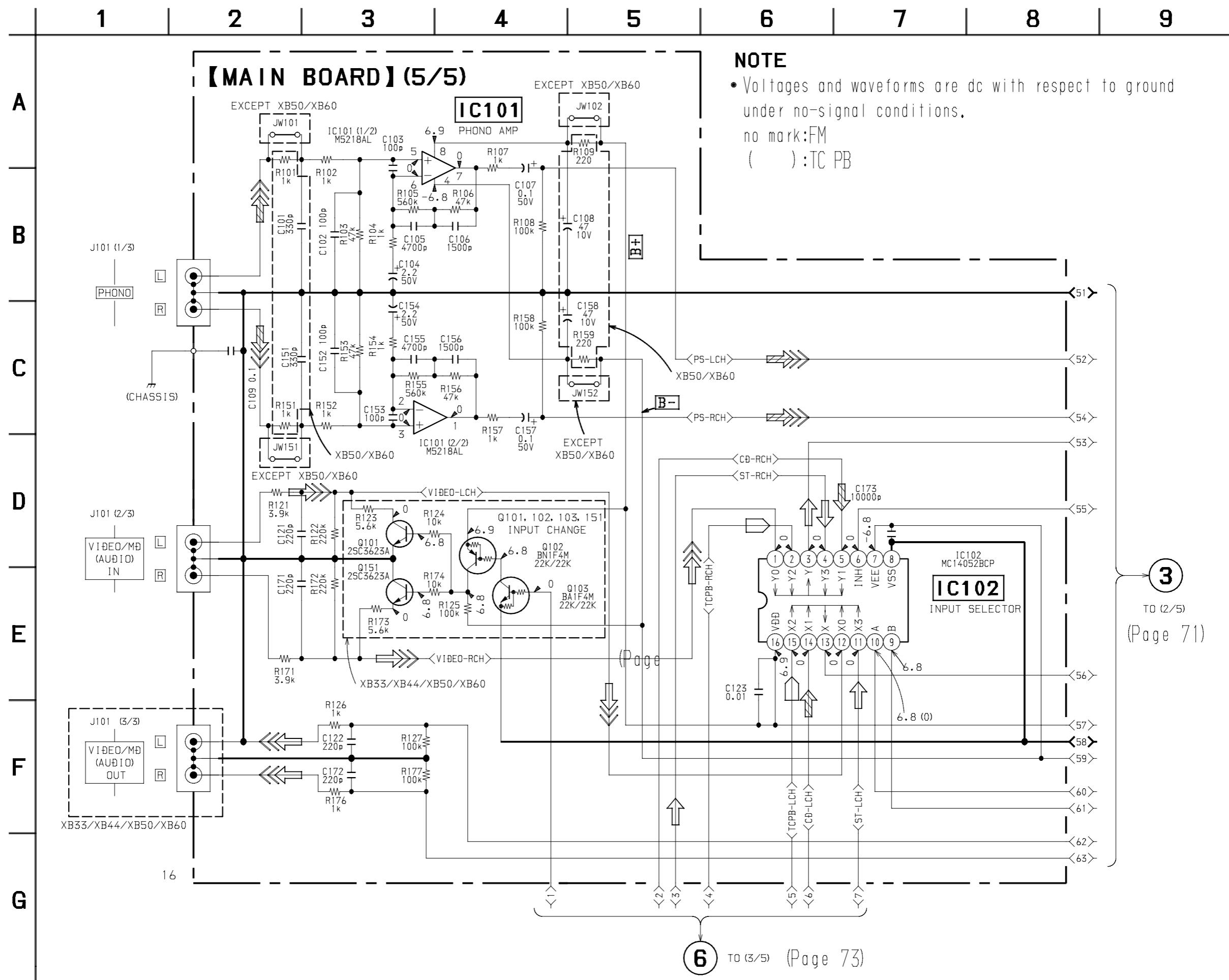


• See page 34 for Waveforms. • See page 82 for IC Block Diagrams

- See page 34 for Waveforms.
- See page 82 for IC Block Diagram



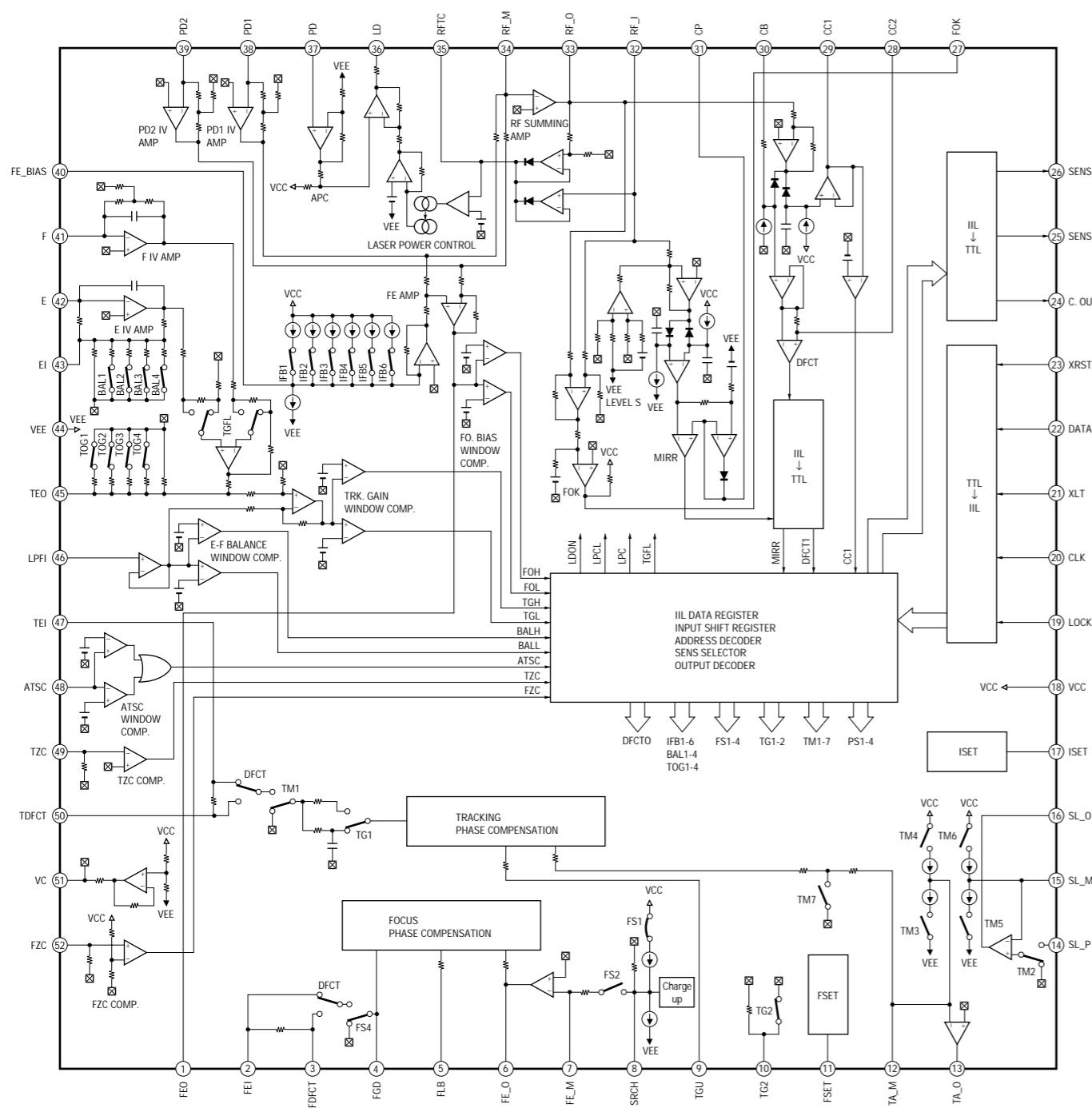
6-26. SCHEMATIC DIAGRAM – MAIN SECTION (5/5) – • See page 82 for IC Block Diagrams.



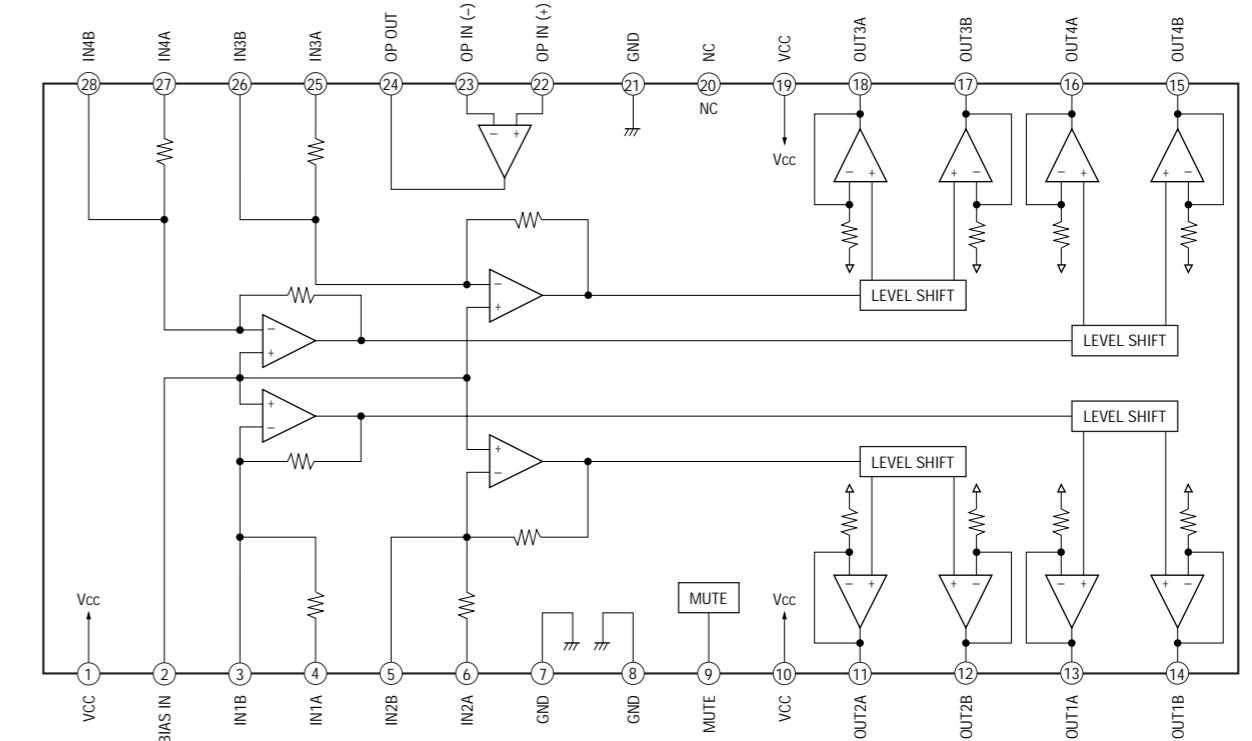
6-27. IC BLOCK DIAGRAMS

- BD SECTION -

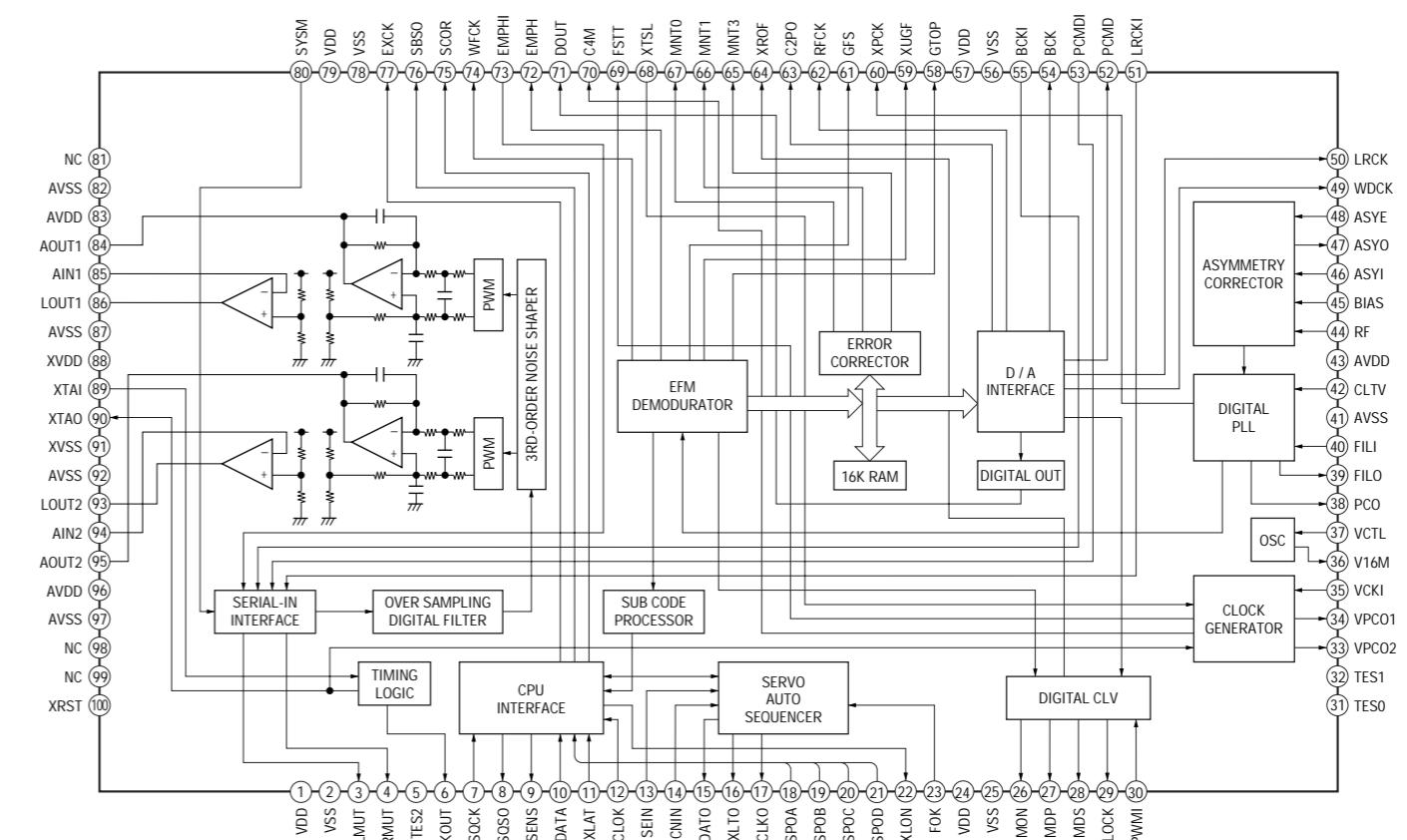
IC101 CXA1992AR



IC102 BA5941FP

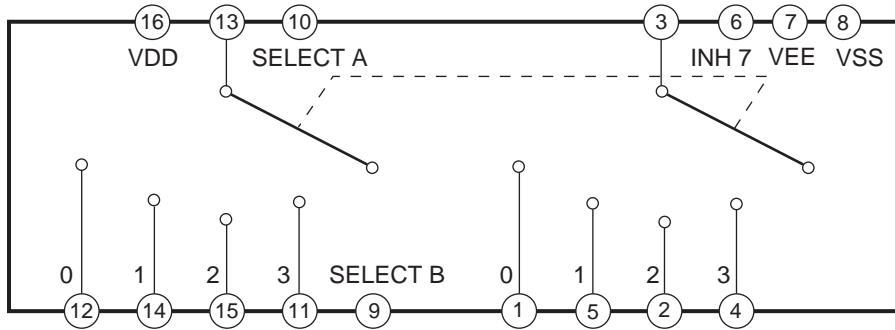


IC103 CXD2519Q

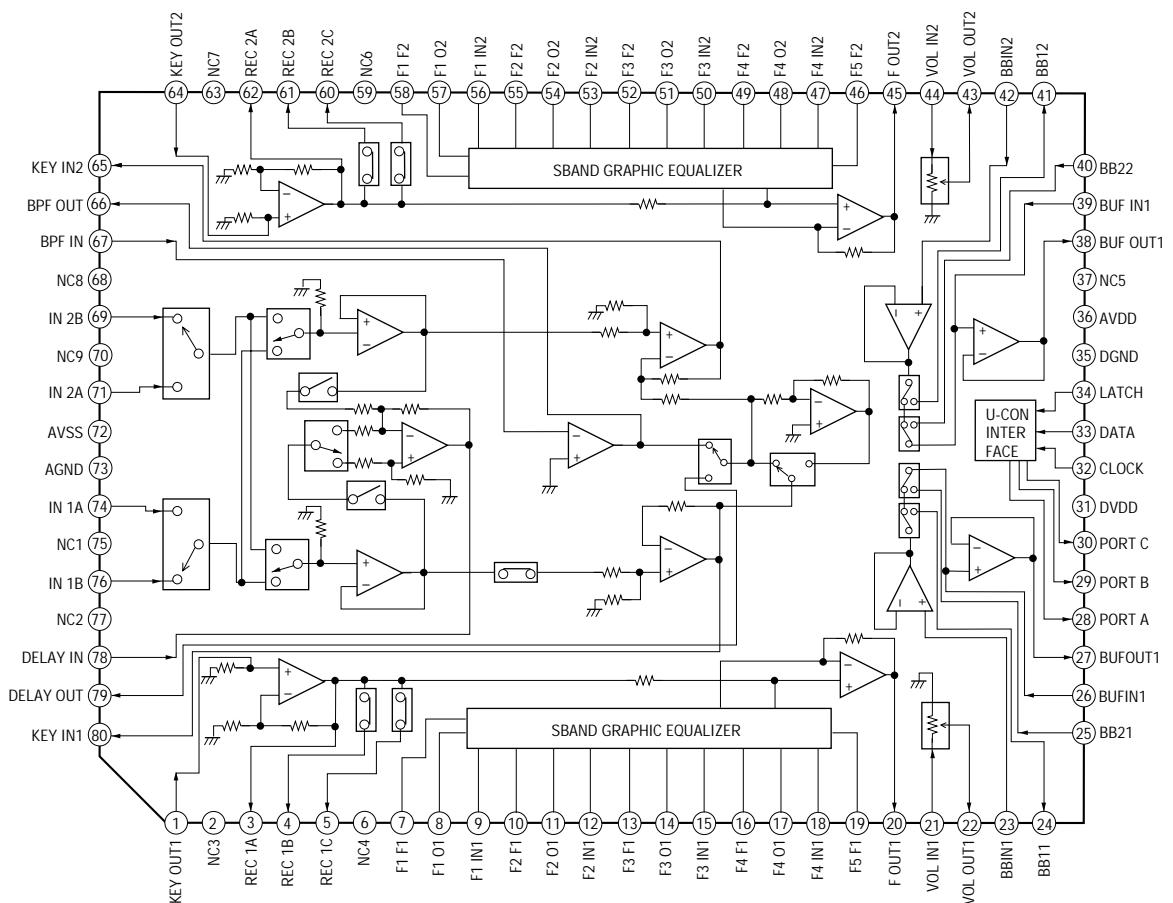


– MAIN SECTION –

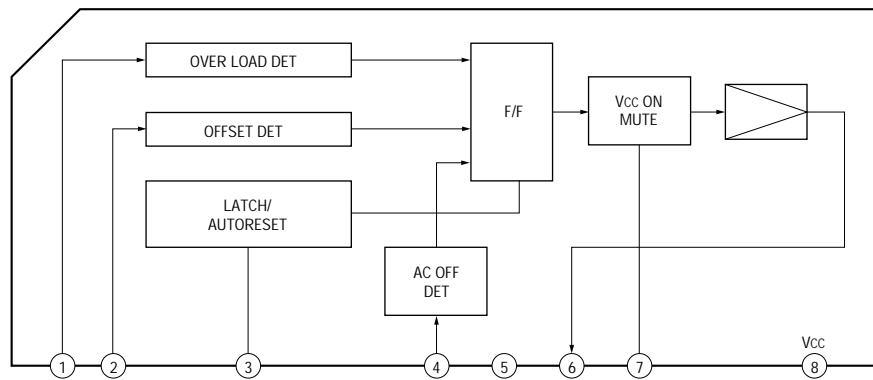
IC102 MC14052BCP



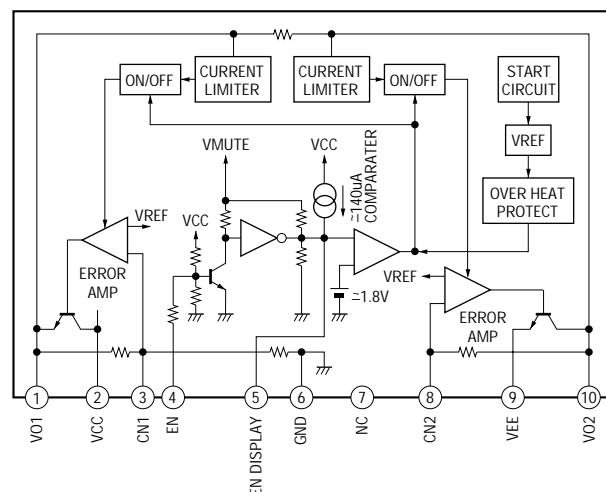
IC201 M62427FP



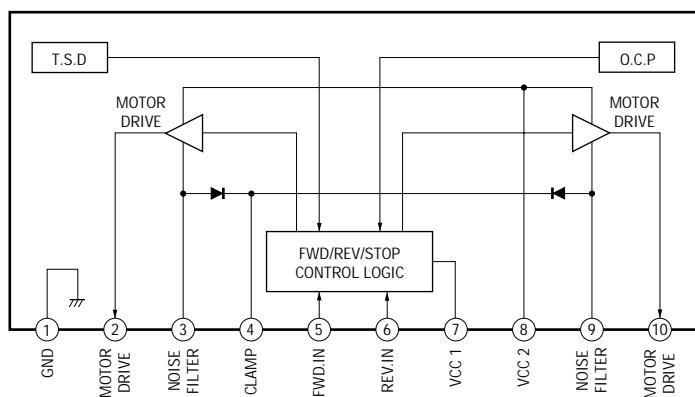
IC281 UPC1237HA



IC901 LA5617

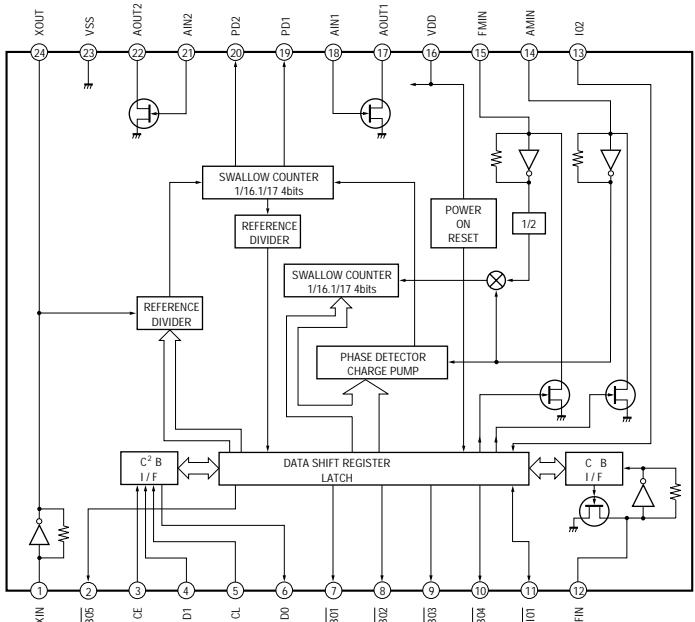


IIC1502 LB1641

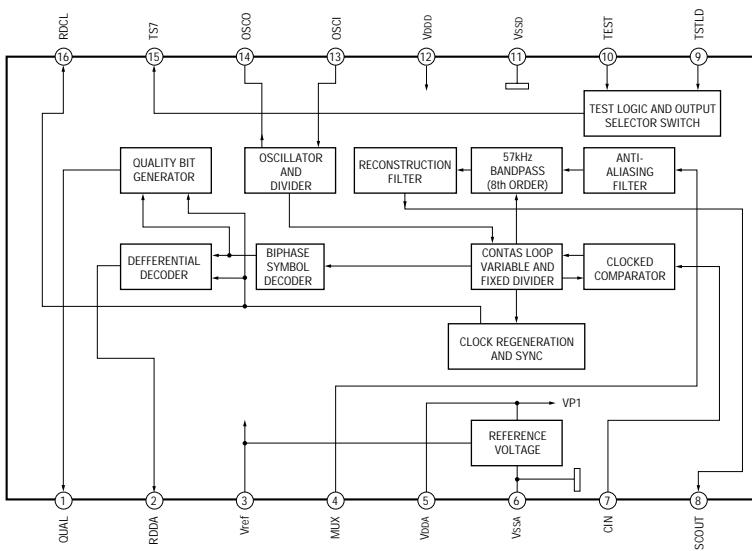


– TUNER SECTION –

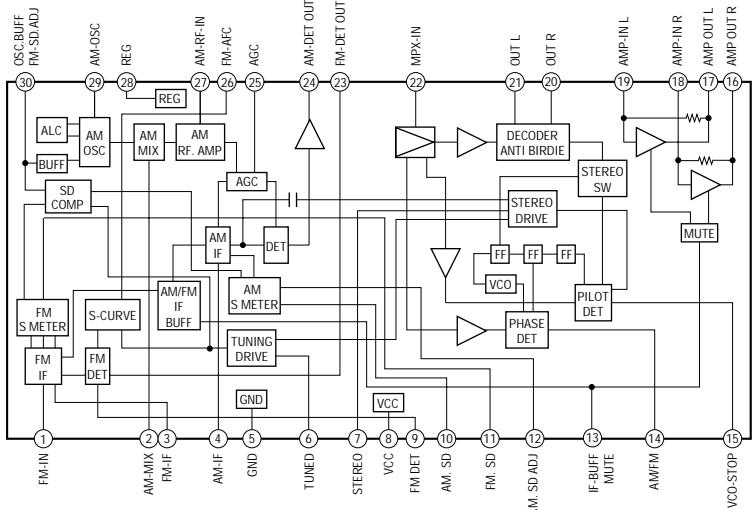
IC21 LC72130



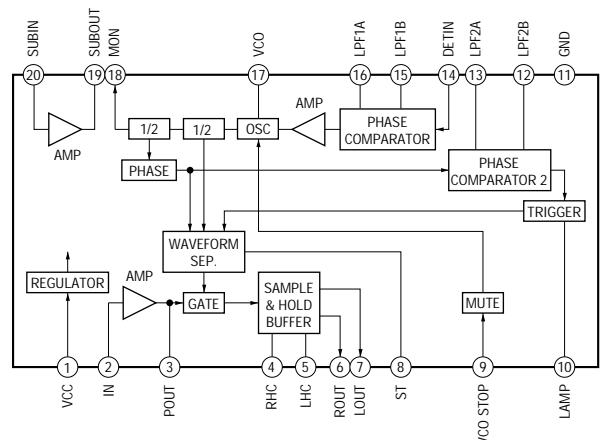
IC1752 BU1922



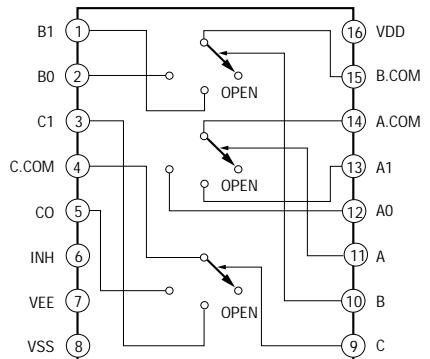
IC41 LA1838



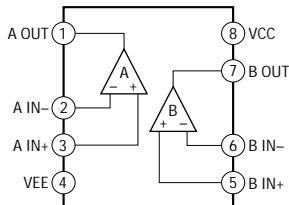
IC1701 IR3R42



IC1702 MC14053BCP



IC1751 NJM4558D



6-28. IC PIN FUNCTION DESCRIPTION

MAIN BOARD IC301 μPD780018Y (MAIN CONTROL)

Pin No.	Pin Name	I/O	Function
1	TA-MUTE	O	Line mute signal output
2	DBFB-H/L	O	DBFB H/L select signal output
3	427-LT	O	Latch signal output for IC201 (62427)
4	KCON-LT	O	Not used
5	KCON-ON/OFF	O	
6	F-RELAY	O	Front speaker relay control output
7	R-RELAY	O	Not used
8	PL-RELAY	O	
9	TEST	I	Connected ground
10	X2	O	X'tal (5MHz)
11	X1	I	
12	VDD	—	Power supply (+5V)
13	XT2	O	X'tal (32.768 KHz)
14	XT1	I	
15	RESET	I	Reset signal input
16	INT/IN	I	Connected ground
17	INT/IN/OUT	I	
18	SCOR	O	Sub code data request signal output
19	SOFT-TEST	O	Software test port
20	AC-CUT	I	Back up signal input
21	RDS-INT	I	RDS signal input
22	RDS-DATA	I	RDS data input
23	VDD	—	Power supply (+5V)
24	AVDD	I	Analog reference voltage input
25	ADJ	I	CD adjust point port
26	A-SHUT	I	A Deck reel pulse detector
27	B-SHUT	I	B Deck reel pulse detector
28	B-HALF	I	Half detector signal input
29	CLK-CHECK	I	Connected ground
30	SPEC-IN	I	Version select signal input
31	ADJ 2	I	Connected ground
32	DEMO-CHANGE	I	DEMO H/L select signal input
33	AVss	—	Ground
34	SQ-DATA-IN	I	Sub code Q data input
35	—	—	Not used
36	SQ-CLK	I	Sub code Q data clock input
37	SW-ON/OFF	O	Not used
38, 39	FUNC 1, 2	I	Connected ground
40	Vss	—	Ground
41	VOL-LAT	O	Not used
42	PL-LAT	O	
43	COM-DIN	I	Connected ground
44	COM-DOUT	O	Common serial data output
45	COM-CLK	O	Common serial clock output
46	CD-POWER	O	CD power on signal output
47	CD-DATA	O	CD data output
48	CD-CLOK	O	CD clock output
49	MSM-CMD	O	Not used
50	MSM-BUSY	I	Connected ground

Pin No.	Pin Name	I/O	Function
51	MSM-LT	O	
52	MSM-NAR	I	Not used
53	MSM-CH	O	
54	INPUT-CHANGE	O	Not used
55	11C-DATA	O	Data output for IC601
56	11C-CLK	O	Clock output for IC601
57	XRST	O	CD reset signal output
58	XLT	O	CD latch signal output
59	FOCUSUS-SW	O	Not used
60	TBL-L	O	
61	TBL-R	O	Table motor control output
62	TRAY-LED	O	CD tray LED ON/OFF output
63	LOAD-OUT	O	
64	LOAD-IN	O	Not used
65	ST-CLK	O	Tuner clock output
66	ST-DIN	I	Tuner data input
67	ST-DOUT	O	Tuner data output
68	ST-CE	O	Tuner chip enable output
69	TUNED	I	Tuned detection for tuner
70	STEREO	I	Stereo detection for tuner
71	Vss	—	Ground
72	ST-MUTE	O	Tuner mute signal output
73	SENS2	I	
74	SENS	I	BD Condition signal input
75	DISC-SENS	I	Not used
76	T-SENS	I	CD table detection signal input
77	UP-SW	I	Up SW (S201) signal input
78	ENC 3	I	
79	ENC 2	I	Not used
80	ENC 1	I	
81	OUT-OPEN	I	Not used
82	CAP-M-H/N	O	Capstan motor H/N speed select signal output
83	B-TRG	O	Trigger motor control output
84	A-TRG	O	Trigger motor control output
85	TRG-LOW	O	Trigger motor control output
86	CAP-M-ON/OFF	O	Capstan motor ON/OFF signal output
87	PB-A/B	O	PB Deck A/Deck B select output
88	EQ-H/N	O	Equalizer H/N select output
89	BIAS	O	Bias ON/OFF signal output
90	REC-MUTE	O	REC mute ON/OFF selection output
91	NR-ON/OFF	O	NR ON/OFF signal output
92	R/P-PASS	I	REC/PB/PASS selection output
93	TC-MUTE	O	TC mute ON/OFF selection output
94	A-PLAY-SW	I	Deck A play detect
95	B-PLAY-SW	I	Deck B play detect
96	TC-RELAY	O	REC/PB head selection output for IC602
97	A-HALF	I	Deck A cassette detect
98	POWER	O	POWER ON/OFF signal output
99	SW-F-CHG	O	Super woofer mode signal output
100	STK-MUTE	O	Power amp ON/OFF signal output

PANEL BOARD IC601 TMP87CH74 (DISPLAY CONTROL)

Pin No.	Pin Name	I/O	Function
1–6	LED3-LED8	O	LED driver output
7	VSS	—	Ground
8	X-OUT	O	X'tal (8MHz)
9	X-IN	I	
10	RESET	I	Reset signal input from main controller
11	LED 9	O	
12	LED10	O	
13	TEST	I	
14–19	LED11-LED19	O	LED driver output
20	VOL-A	I	Rotary encoder (S701 VOLUME) pulse input
21	DOOR SW	I	SOOR SW (S651) ON/OFF signal input
22	JOG-A	I	Rotaly encoder (S711 AMS) pulse input
23	CLOCK	I	Serial clock input from main controller
24	DATA	I	Serial data input from main controller
25	LED SELECT	O	LED select signal output
26	MODEL	I	Version select signal input
27–30	KEY1-KEY4	I	Key input
31	SPEANA-3	I	Connected ground
32	L + R	I	Spectrum analyzer (high frequency) input
33	SIRCS	I	Remote commander signal input
34	VOL-B	I	Rotary encoder (S701 VOLUME) pulse input
35	JOG-B	I	Rotary encoder (S711 AMS) pulse input
36	SPEANA-1	I	Spectrum analyzer (Low frequency) input
37	SPEANA-2	I	Spectrum analyzer (Middle frequency) input
38	VASS	—	Ground
39	VAREF	I	Analog reference voltage input
40	VDD	—	Power supply (+5V)
41	—	—	Not used
42–56	GR1-GR15	O	FL gride signal output
57–77	SEG1-SEG77	O	FL segment signal output
78	VKK	—	–30V driving power for FL
79, 80	LED1-LED2	O	LED driver output

SECTION 7

EXPLODED VIEWS

NOTE:

- -XX, -X mean standardized parts, so they may have some differences from the original one.
- Items marked “*” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Abbreviation

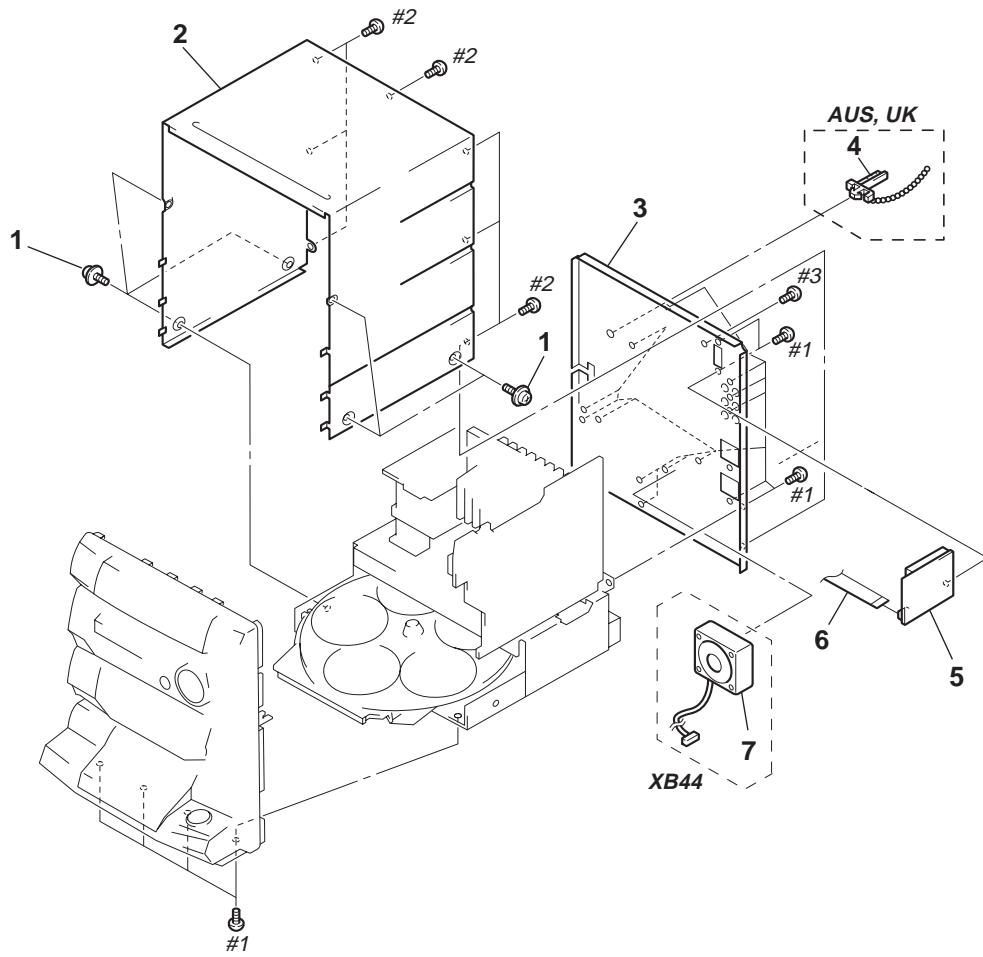
AR : Argentine	EE : East European
AUS : Australian	MX : Mexican
CND : Canadian	SAF : South African

- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list and accessories and packing materials are given in the last of this parts list.

The components identified by mark \triangle or dotted line with mark \triangle are critical for safety. Replace only with part number specified.

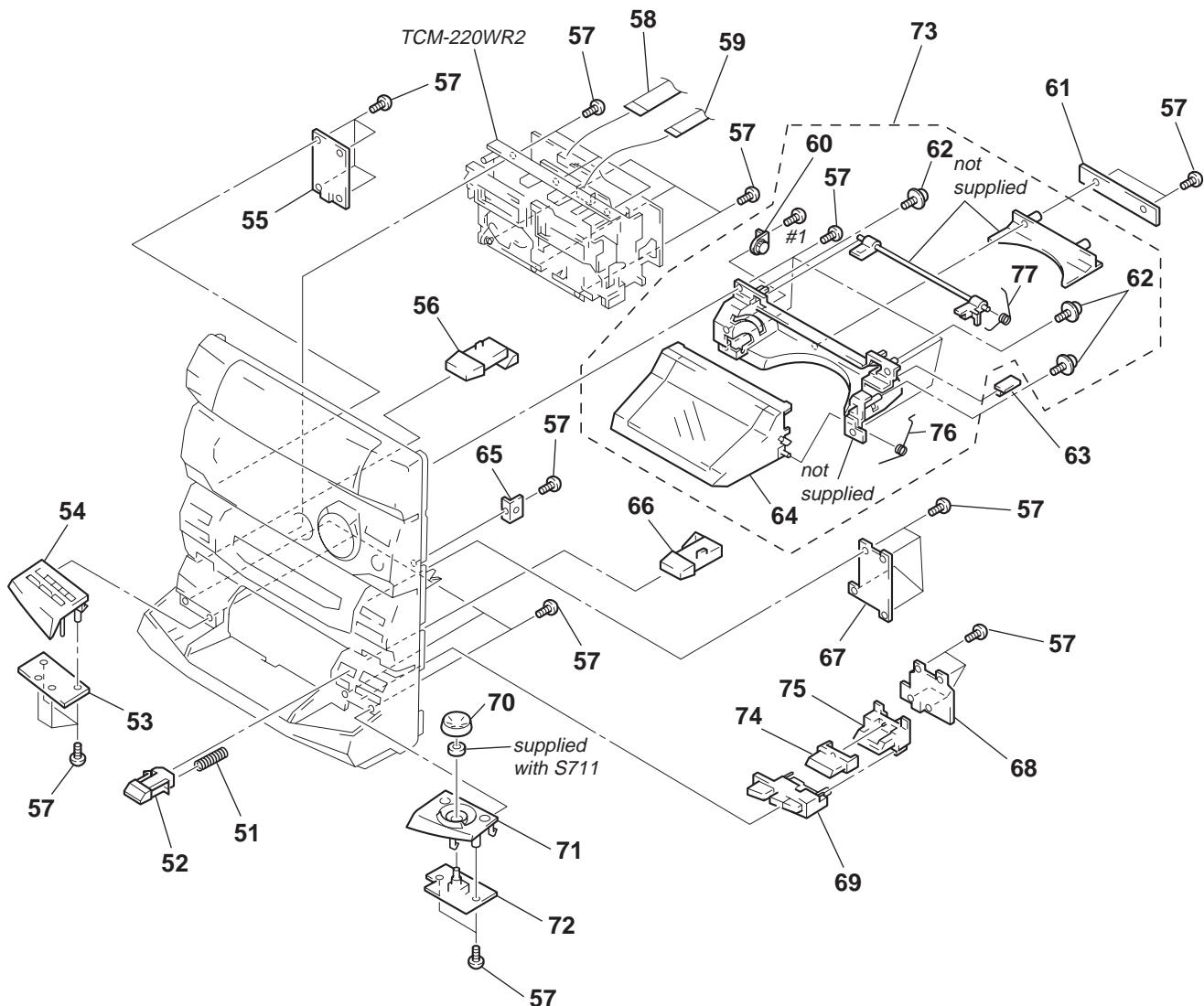
Les composants identifiés par une marque \triangle sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

7-1. CASE, REAR PANEL SECTION



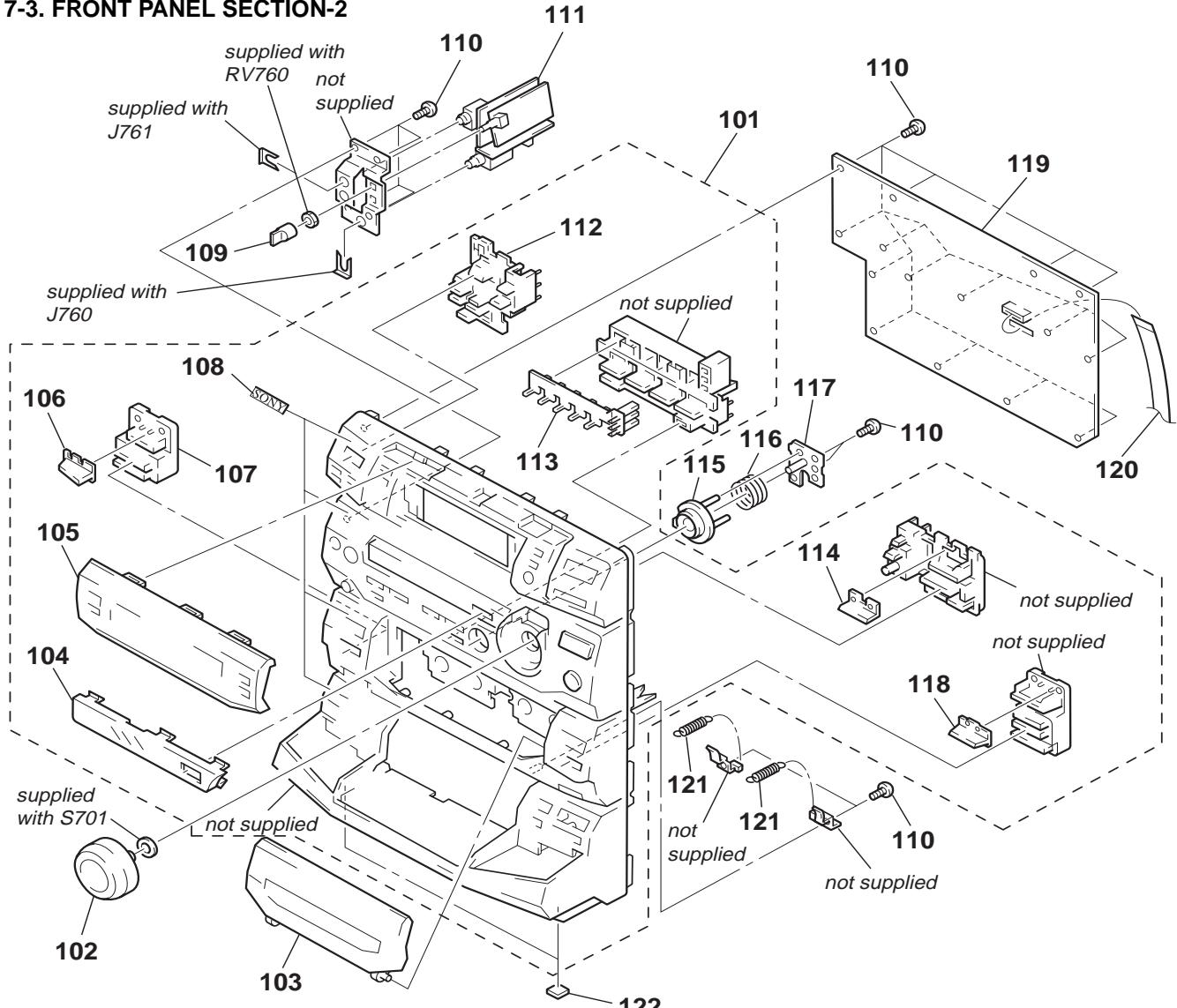
Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
1	3-363-099-01	SCREW (CASE 3 TP2)		* 3	4-996-412-41	PANEL, BACK (XB44: SAF)	
* 2	4-987-052-72	CASE (G5500)		* 3	4-996-419-01	PANEL, BACK (D790: US)	
* 2	4-987-052-92	CASE (EXCEPT G5500)		* 3	4-996-419-11	PANEL, BACK (D790: CND)	
* 3	4-996-410-01	PANEL, BACK (XB33: E, AR)		* 3	4-996-419-21	PANEL, BACK (XB60: AEP, UK)	
* 3	4-996-410-21	PANEL, BACK (XB33: MX)		* 3	4-996-419-31	PANEL, BACK (XB60: EE, CIS)	
* 3	4-996-410-31	PANEL, BACK (XB33: AUS)		4	4-956-370-12	BAND, PLUG FIXED (AUS, UK)	
* 3	4-996-410-41	PANEL, BACK (XB33: SAF)		5	1-233-544-11	ENCAPSULATED COMPONENT	
* 3	4-996-411-01	PANEL, BACK (D390: US)					(D390/D790/G5500)
* 3	4-996-411-11	PANEL, BACK (D390: CND)		5	1-233-545-11	ENCAPSULATED COMPONENT (XB33/XB44)	
* 3	4-996-411-21	PANEL, BACK (XB50: AEP, UK)		* 5	A-4303-588-A	TCB BOARD, COMPLETE (EE, CIS)	
* 3	4-996-411-31	PANEL, BACK (XB50: EE, CIS)		* 5	A-4303-590-A	TCB BOARD, COMPLETE (AEP, UK)	
* 3	4-996-411-41	PANEL, BACK (G5500)		6	1-769-974-11	WIRE (FLAT TYPE) (13 CORE)	
* 3	4-996-412-01	PANEL, BACK (XB44: E, AR)					(EXCEPT XB50/XB60)
* 3	4-996-412-21	PANEL, BACK (XB44: MX)		6	1-773-006-11	WIRE (FLAT TYPE) (15 CORE) (XB50/XB60)	
* 3	4-996-412-31	PANEL, BACK (XB44: AUS)		7	1-698-792-11	FAN, DC (XB44)	

7-2. FRONT PANEL SECTION-1



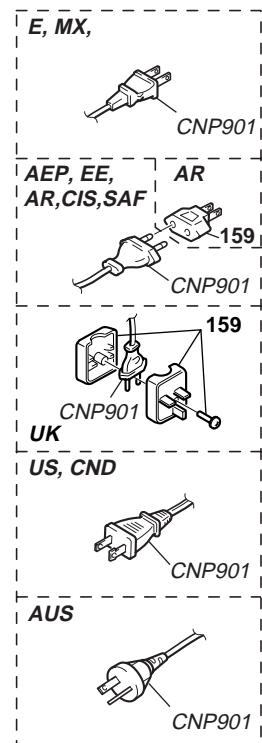
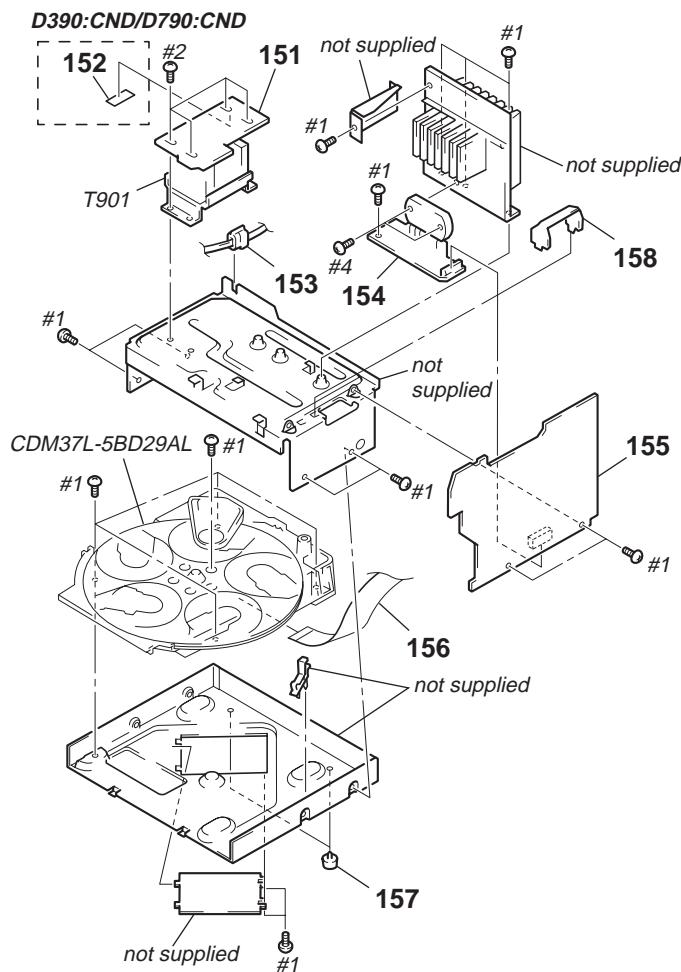
Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
51	4-987-995-01	SPRING (CD EJECT), COMPRESSION		* 65	4-987-933-01	BRACKET (TA)	
52	4-987-001-01	BUTTON (EJECT CD)(G5500)		66	4-987-000-01	BUTTON (EJECT B) (G5500)	
52	4-987-001-11	BUTTON (EJECT CD)(EXCEPT G5500)		66	4-987-000-12	BUTTON (EJECT B) (EXCEPT G5500)	
* 53	1-669-630-11	CD-A SW BOARD		* 67	1-664-013-11	TC-B SW BOARD	
54	X-4948-297-1	PANEL (A) SUB ASSY (G5500)		* 68	1-669-631-11	CD-B1 SW BOARD	
54	X-4949-273-1	PANEL (A) SUB ASSY (D390/D790)		69	X-4947-969-1	BUTTON (CD STOP) ASSY (G5500)	
54	X-4949-282-1	PANEL(A) SUB ASSY (XB33/XB44/XB50/XB60)		69	X-4949-279-1	BUTTON (CD STOP) ASSY (EXCEPT G5500)	
* 55	1-664-012-11	TC-A SW BOARD		70	4-987-037-01	KNOB (JOG) (G5500)	
56	4-986-999-01	BUTTON (EJECT A) (G5500)		70	4-987-037-11	KNOB (JOG) (EXCEPT G5500)	
56	4-986-999-12	BUTTON (EJECT A) (EXCEPT G5500)		71	X-4948-298-1	PANEL (B) SUB ASSY (G5500)	
57	4-951-620-01	SCREW (2.6 × 8), +BVTP		71	X-4949-274-1	PANEL (B) SUB ASSY (EXCEPT G5500)	
58	1-773-161-11	WIRE (FLAT TYPE) (21 CORE)		* 72	1-669-632-11	CD-B2 SW BOARD	
59	1-769-949-11	WIRE (FLAT TYPE) (11 CORE)		73	A-4384-446-A	LID ASSY, CD (G5500)	
60	3-354-963-01	DAMPER		73	A-4384-908-A	LID ASSY, CD (D390/D790/XB50/XB60)	
* 61	1-664-017-11	LED BOARD		73	A-4384-916-A	LID ASSY, CD (XB33/XB44)	
62	4-957-577-01	SCREW PTP WH (2.6 × 8) (DIA. 10)		74	4-987-014-01	INDICATOR (CD)	
* 63	1-664-016-11	DOOR SW BOARD		75	4-987-002-01	BUTTON (CD.PLAY) (G5500)	
64	X-4949-684-1	LID ASSY, DISC (D390/D790/XB50/XB60)		75	4-987-002-11	BUTTON (CD.PLAY) (EXCEPT G5500)	
64	X-4949-685-1	LID ASSY, DISC (XB33/XB44)		76	4-987-997-01	SPRING (CD.LID), TORSION	
64	X-4949-709-1	LID ASSY, DISC (G5500)		77	4-987-998-01	SPRING (LOCK SHAFT), TORSION	

7-3. FRONT PANEL SECTION-2



Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
101	X-4949-270-1	PANEL ASSY (D390)		109	4-973-644-71	KNOB (MIC)(EXCEPT G5500)	
101	X-4949-285-1	PANEL ASSY (XB50: AEP, UK)		110	4-951-620-01	SCREW (2.6 x 8), +BVTP	
101	X-4949-287-1	PANEL ASSY (XB33)		* 111	A-4392-452-A	HEADPHONE-MIC BOARD, COMPLETE	
101	X-4949-288-1	PANEL ASSY (D790)		112	4-986-986-21	BUTTON (POWER) (EXCEPT G5500)	
101	X-4949-289-1	PANEL ASSY (XB60: AEP, UK)		112	4-986-986-31	BUTTON (POWER) (G5500)	
101	X-4949-291-1	PANEL ASSY (XB44)		113	4-987-012-01	INDICATOR (TA)	
101	X-4949-453-1	PANEL ASSY (G5500)		114	4-987-013-01	INDICATOR (TUNER)	
101	X-4949-579-1	PANEL ASSY (XB50: EE, CIS)		115	4-986-990-01	BUTTON (CURSOR) (G5500)	
101	X-4949-580-1	PANEL ASSY (XB60: EE, CIS)		115	4-986-990-11	BUTTON (CURSOR) (EXCEPT G5500)	
102	4-987-036-01	KNOB (VOL) (G5500)		116	4-978-683-01	SPRING, COMPRESSION	
102	4-987-036-11	KNOB (VOL) (EXCEPT G5500)		* 117	4-987-041-01	COVER, CURSOR	
103	X-4947-973-1	LID ASSY, CASSETTE (G5500)		118	4-987-022-01	INDICATOR (TC B)	
103	X-4949-271-1	LID ASSY, CASSETTE (EXCEPT G5500)		* 119	A-4403-872-A	PANEL BOARD, COMPLETE	
104	4-987-032-01	DISPLAY (TA)					(D390/G5500/XB33/XB50: EE, CIS)
105	4-987-028-01	DISPLAY (ST)(G5500)		* 119	A-4403-885-A	PANEL BOARD, COMPLETE (XB60: AEP, UK)	
105	4-987-028-11	DISPLAY (ST) (EXCEPT G5500)		* 119	A-4403-892-A	PANEL BOARD, COMPLETE (XB50: AEP, UK)	
106	4-987-021-01	INDICATOR (TC A)		* 119	A-4403-906-A	PANEL BOARD, COMPLETE	
107	4-986-997-01	BUTTON (DECK. A) (G5500)					(D790/XB44/XB60: EE, CIS)
107	4-986-997-41	BUTTON (DECK. A) (EXCEPT G5500)		120	1-773-051-11	WIRE (FLAT TYPE) (17 CORE)	
108	4-963-404-21	EMBLEM (5-A), SONY		121	4-987-996-01	SPRING (TC LID), TENSION	
109	4-973-644-01	KNOB (MIC) (G5500)		122	4-948-236-21	CUSHION (107)	

7-4. CHASSIS SECTION

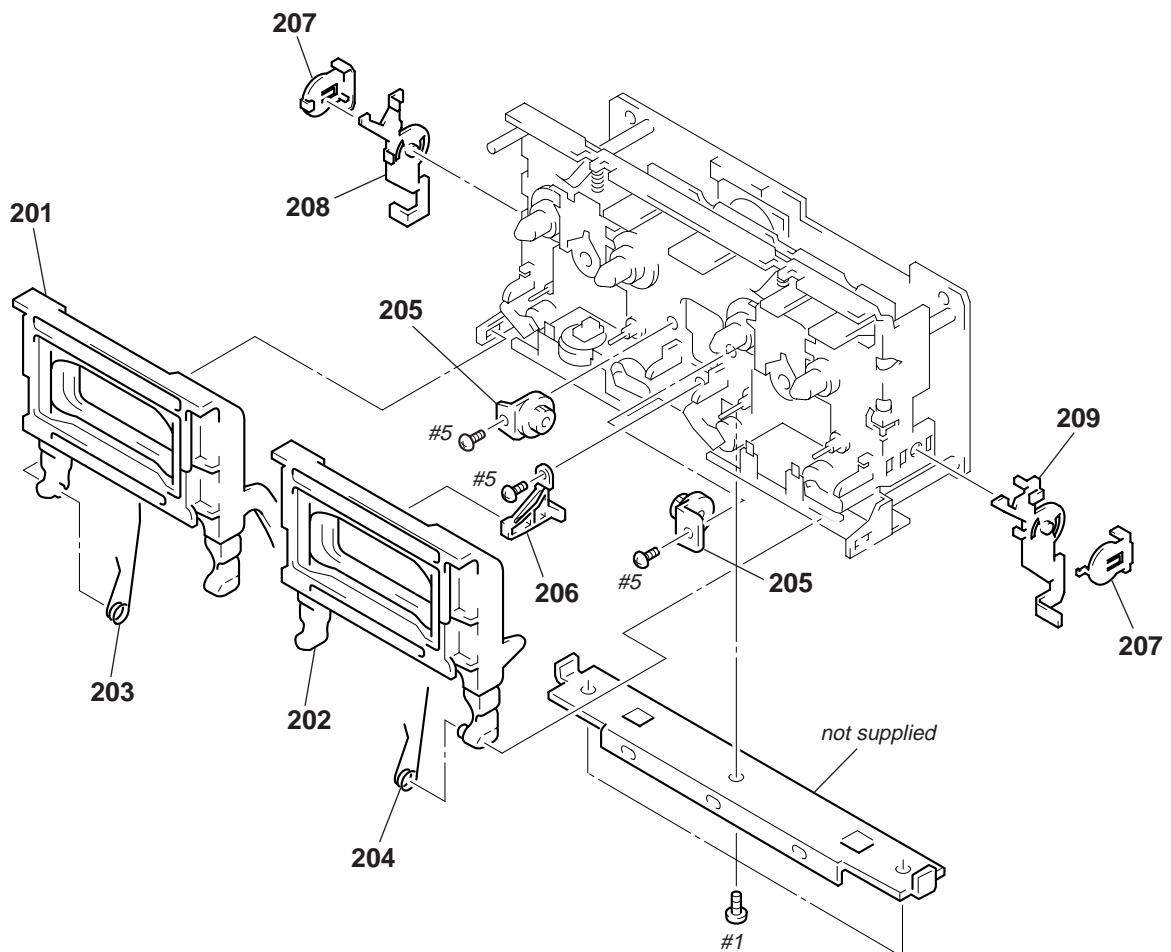


Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
* 151	1-664-014-11	TRANS BOARD (D390: US/D790: US/G5500/XB50/XB60)		* 155	A-4407-353-A	MAIN BOARD, COMPLETE (XB50: EE, CIS)	
* 151	1-668-169-11	TRANS BOARD (D390: CND/D790: CND/XB33/XB44)		* 155	A-4407-358-A	MAIN BOARD, COMPLETE (XB60: EE, CIS)	
* 152	3-701-946-28	LABEL, FUSE RATING (D390: CND/D790: CND)		* 155	A-4407-361-A	MAIN BOARD, COMPLETE (XB44: SAF, AUS)	
				* 155	A-4407-364-A	MAIN BOARD, COMPLETE (XB33: SAF, AUS)	
				156	1-777-868-11	WIRE (FLAT TYPE) (19 CORE)	
153	3-703-244-00	BUSHING (FBS001), CORD (EXCEPT XB33: E, MX/XB44: E, MX)		157	X-4941-228-1	FOOT (F22125H-M)	
153	4-966-266-01	BUSHING (S) (FBS002), CORD (XB33: E, MX/XB44: E, MX)		* 158	4-988-533-01	HOLDER, PWB	
* 154	A-4392-442-A	POWER AMP BOARD, COMPLETE (D390/D790/G5500)		△ 159	1-569-008-11	ADAPTOR, CONVERSION 2P (AR)	
				△ 159	1-770-019-11	ADAPTOR, CONVERSION PLUG 3P (UK)	
				△ CNP901	1-558-943-51	CORD, POWER (E, MX)	
* 154	A-4403-868-A	POWER AMP BOARD, COMPLETE (XB60)		△ CNP901	1-575-042-21	CORD, POWER (US, CND)	
* 154	A-4403-888-A	POWER AMP BOARD, COMPLETE (XB44)		△ CNP901	1-575-651-21	CORD, POWER (AEP, EE, AR, CIS, SAF, UK)	
* 154	A-4403-900-A	POWER AMP BOARD, COMPLETE (XB50)		△ CNP901	1-696-845-11	CORD, POWER (AUS)	
* 154	A-4403-912-A	POWER AMP BOARD, COMPLETE (XB33)		△ T901	1-431-045-11	TRANSFORMER, POWER (D390: US/G5500)	
* 155	A-4392-438-A	MAIN BOARD, COMPLETE (D390/G5500)		△ T901	1-431-046-11	TRANSFORMER, POWER (D790: US)	
* 155	A-4392-474-A	MAIN BOARD, COMPLETE (D790)		△ T901	1-431-634-11	TRANSFORMER, POWER (XB50)	
* 155	A-4403-870-A	MAIN BOARD, COMPLETE (XB60: AEP, UK)		△ T901	1-431-635-11	TRANSFORMER, POWER (XB33)	
* 155	A-4403-890-A	MAIN BOARD, COMPLETE (XB44: E, AR, MX)		△ T901	1-431-636-11	TRANSFORMER, POWER (XB60)	
* 155	A-4403-894-A	MAIN BOARD, COMPLETE (XB50: AEP, UK)		△ T901	1-431-637-11	TRANSFORMER, POWER (XB44)	
* 155	A-4403-909-A	MAIN BOARD, COMPLETE (XB33: E, AR, MX)		△ T901	1-431-733-11	TRANSFORMER, POWER (D390: CND/D790: CND)	

Note:
The components identified by mark \triangle or dotted line with mark \triangle are critical for safety.
Replace only with part number specified.

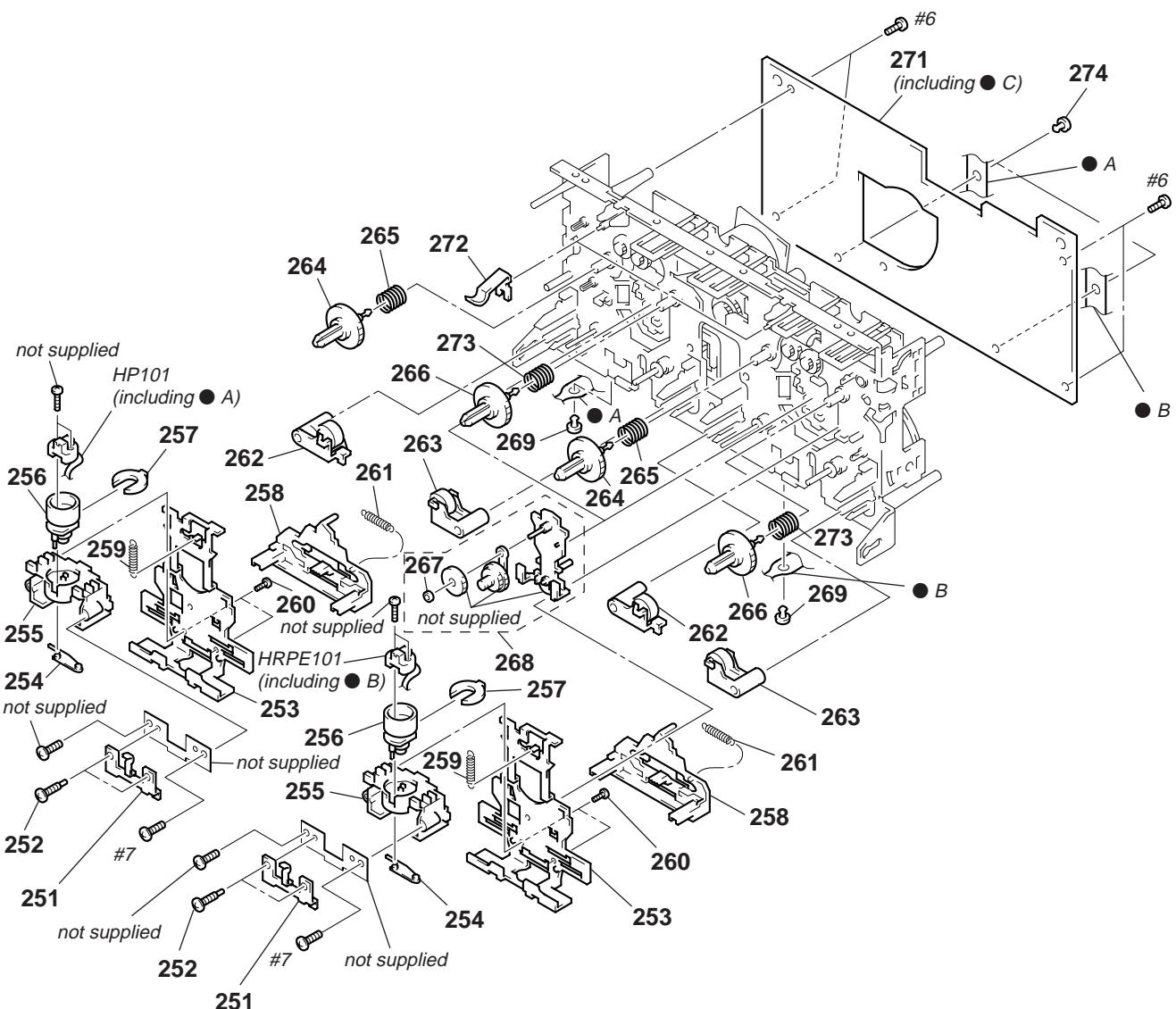
Note: Les composants identifiés par une marque  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

**7-5. TAPE MECHANISM DECK SECTION-1
(TCM-220WR2)**



Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
201	X-4947-943-1	HOLDER (L) ASSY, CASSETTE		206	4-980-439-01	FULCRUM, HOLDER	
202	X-4947-944-1	HOLDER (R) ASSY, CASSETTE		207	3-354-957-01	JOINT (LOCK LEVER)	
203	4-959-231-11	SPRING (L), TORSION		208	3-354-953-01	LEVER (LOCK LEVER L)	
204	4-959-232-11	SPRING (R), TORSION		209	3-354-954-01	LEVER (LOCK LEVER R)	
205	3-354-963-01	DAMPER					

7-6. TAPE MECHANISM DECK SECTION-2 (TCM-220WR2)

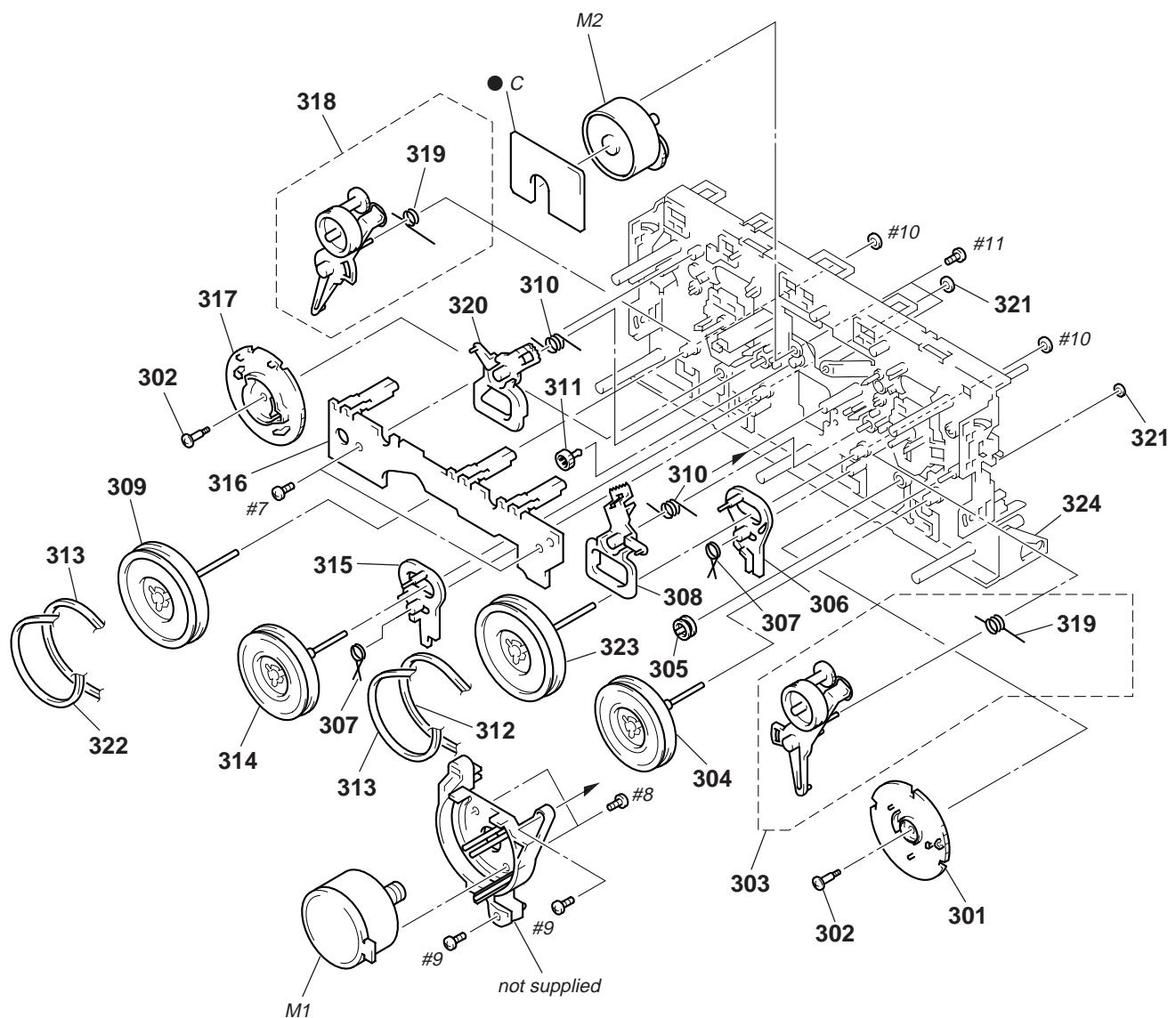


Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
251	3-908-560-01	SPRING, AZIMUTH ADJUSTMENT		264	3-908-613-01	GEAR (S), REEL	
252	3-919-684-01	SCREW, AZIMUTH ADJUSTMENT		265	3-917-141-01	SPRING, COMPRESSION	
253	X-3373-113-1	SLIDER (HEAD) ASSY		266	X-3371-305-1	REEL (T) ASSY	
254	3-908-556-01	SPRING, HEAD TOGGLE		267	3-669-465-01	WASHER (1.5), STOPPER	
255	3-908-558-02	FITTING BLOCK, HEAD		268	X-3370-173-1	TU ASSY	
256	3-908-557-02	ROTARY BLOCK, HEAD		269	3-911-116-21	RIVET, PUSH	
* 257	3-908-559-01	STOPPER, AZIMUTH		* 271	A-2007-131-A	AUDIO BOARD, COMPLETE	
258	3-908-555-01	SLIDER (REV SLIDER)		272	3-930-972-01	DETENT, HALF	
259	3-917-143-11	SPRING, TENSION		273	3-917-142-01	SPRING, COMPRESSION	
260	3-388-848-01	SCREW (P2X6) (B TIGHT)		274	3-911-116-11	RIVET, PUSH	
261	3-939-371-01	SPRING (1), TENSION		HP101	1-500-093-11	HEAD, MAGNETIC (PLAYBACK) (DECK A)	
262	X-3369-909-1	PINCH LEVER (REV) ASSY		HRPE101	1-500-094-11	HEAD, MAGNETIC (REC/PB/ERASE) (DECK B)	
263	X-3369-908-1	PINCH LEVER (FWD) ASSY					

7-7. TAPE MECHANISM DECK SECTION-3

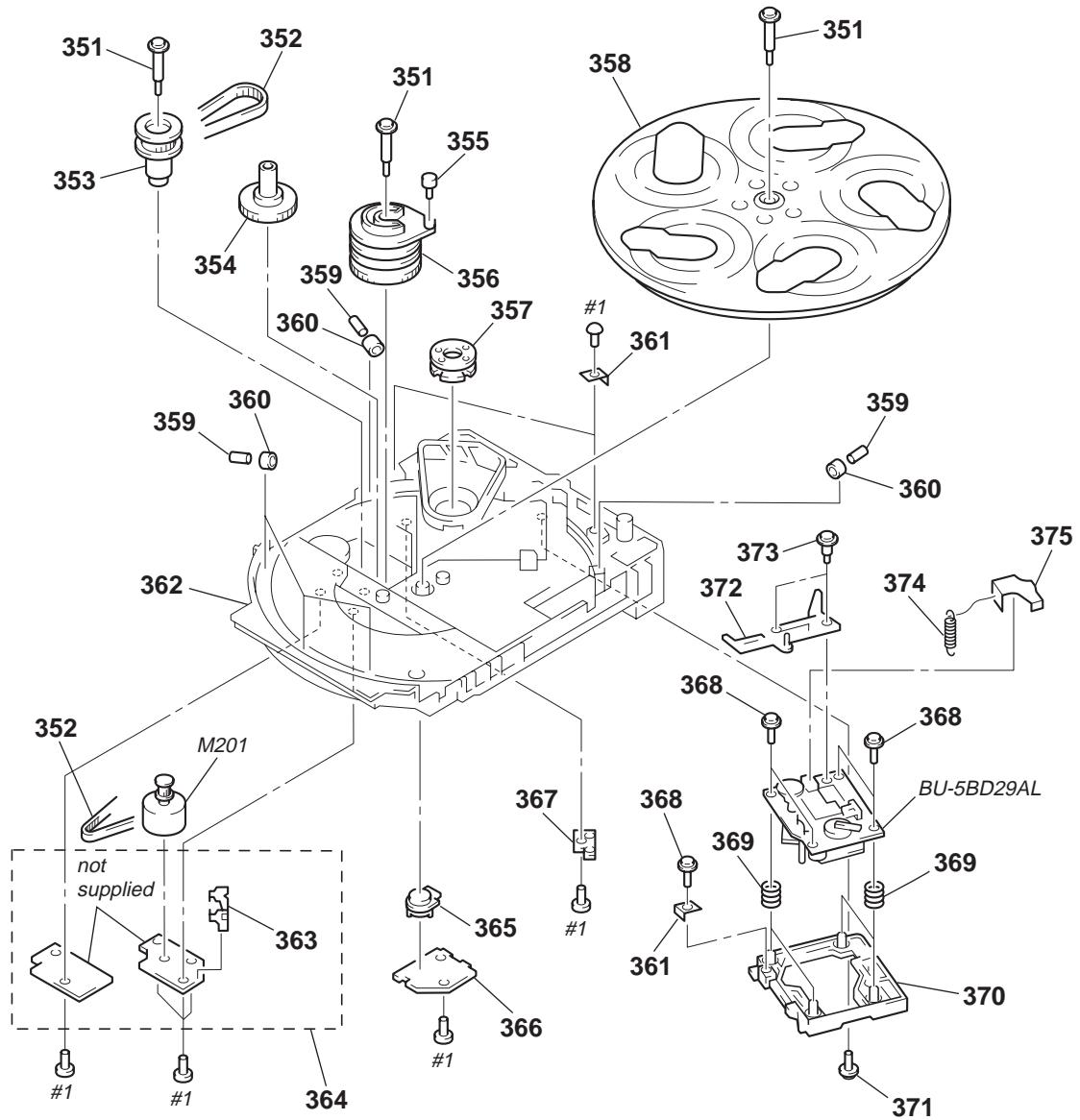
(TCM-220WR2)

● C : MOTOR board (supplied with AUDIO board)



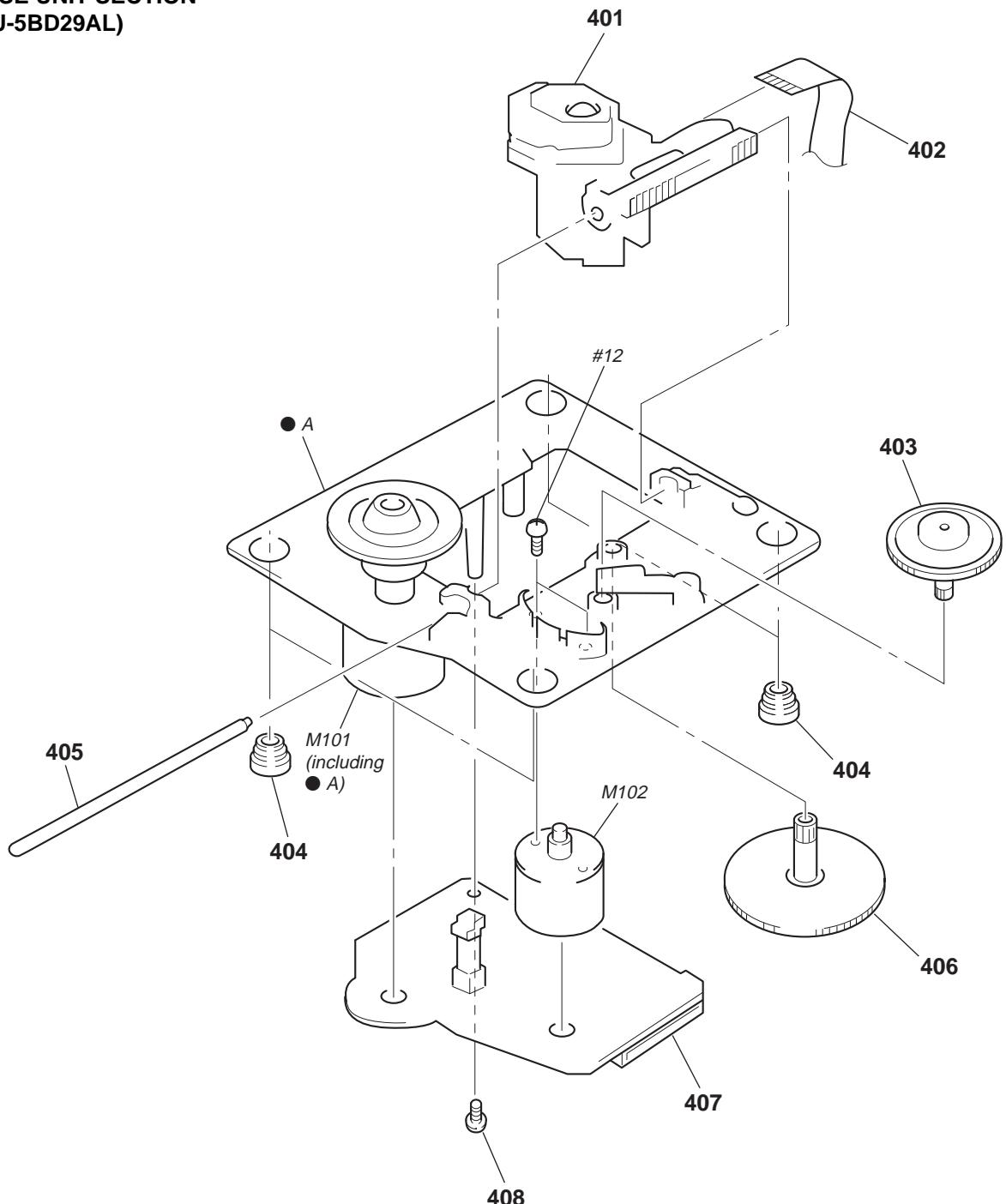
Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
301	3-908-597-01	CAM (A)		314	X-3370-171-1	FLYWHEEL (BR) ASSY	
302	3-908-608-11	SCREW, STEP		315	3-908-600-01	LEVER (REV-B)	
303	X-3372-930-1	ARM (A) ASSY, FR	* 316	1-650-669-11	LEAF SWITCH BOARD		
304	X-3370-169-1	FLYWHEEL (AR) ASSY	317	3-908-598-01	CAM (B)		
305	3-928-047-01	PULLEY, TENSION	318	X-3372-931-1	ARM (B) ASSY, FR		
306	3-908-599-01	LEVER (REV-A)		319	3-914-111-01	SPRING (FR), TORSION	
307	3-908-601-01	SPRING (REV LEVER), TORSION		320	3-908-604-01	LEVER (TRIGGER B)	
308	3-908-603-01	LEVER (TRIGGER A)		321	3-911-115-01	WASHER, STOPPER	
309	X-3367-593-1	FLYWHEEL (BF) ASSY		322	3-917-176-11	BELT (B)	
310	3-908-605-01	SPRING (TRIGGER), TORSION		323	X-3370-172-1	FLYWHEEL (AF) ASSY	
311	3-908-609-01	GEAR, TRIGGER		324	X-3371-441-1	CHASSIS ASSY, MECHANICAL	
312	3-913-845-11	BELT (A)		M1	X-3371-223-1	MOTOR ASSY, CAPSTAN	
313	3-913-846-11	BELT (FR)		M2	A-2004-410-A	MOTOR ASSY, DC (TRIGGER)	

7-8. CD MECHANISM DECK SECTION (CDM37L-5BD29AL)



Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
351	4-987-976-01	SCREW, STEP		* 364	A-4673-765-A	CD MOTOR BOARD, COMPLETE	
352	4-944-490-01	BELT (TIMING)		365	4-978-426-01	INDICATOR (NO.)	
353	A-4660-978-A	GEAR (PULLEY) ASSY		* 366	1-659-059-13	BD LED BOARD	
354	4-978-421-01	GEAR (MID)		* 367	1-659-058-13	TABLE SENSOR BOARD	
355	4-978-425-01	ROLLER (CAM)		368	4-933-134-01	SCREW (+PTPWH M2.6 x 6)	
356	4-978-420-01	CAM (HOLDER)		369	4-958-593-01	SPRING (BU), COMPRESSION	
357	1-452-538-11	MAGNET		* 370	4-978-419-01	HOLDER (BU-5)	
358	4-978-417-01	TABLE, DISC		371	4-917-583-71	BRACKET, YOKE	
359	4-934-376-01	SHAFT (ROLLER)		372	4-989-493-01	SLIDER (37)	
360	X-4924-457-1	ROLLER ASSY		373	4-989-494-01	SCREW (SLIDER), STEP	
* 361	4-978-583-01	BRACKET (BU)		374	4-989-819-01	SPRING, TENSION	
* 362	4-978-418-01	CHASSIS		375	4-989-491-21	COVER, LENS	
* 363	4-980-385-01	HOLDER (SW)		M201	A-4660-977-A	MOTOR ASSY (TABLE)	

**7-9. BASE UNIT SECTION
(BU-5BD29AL)**



Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
△ 401	8-820-020-01	OPTICAL PICK-UP KSS-213D/Q-NP		406	4-917-564-01	GEAR (P), FLATNESS	
402	1-769-069-11	WIRE (FLAT TYPE) (16 CORE)		* 407	A-4699-522-A	BD BOARD, COMPLETE	
403	4-917-567-21	GEAR (M)		408	4-951-620-01	SCREW (2.6 × 8), +BVTP	
404	4-951-940-01	INSULATOR (BU)		M101	X-4917-523-4	MOTOR ASSY (SPINDLE)	
405	4-917-565-01	SHAFT, SLED		M102	X-4917-504-1	MOTOR ASSY (SLED)	

Note:

The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.

Note:

Les composants identifiés par une marque △ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

SECTION 8

ELECTRICAL PARTS LIST

NOTE:

When indicating parts by reference number, please include the board name.

The components identified by mark \triangle or dotted line with mark \triangle are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque \triangle sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

- Abbreviation

AR : Argentine	EE : East European
AUS : Australian	MX : Mexican
CND : Canadian	SAF : South African

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- CAPACITORS:
uF: μ F
- RESISTORS
All resistors are in ohms.
METAL: metal-film resistor
METAL OXIDE: Metal Oxide-film resistor
F: nonflammable
- COILS
uH: μ H
- SEMICONDUCTORS
In each case, u: μ , for example:
uA...: μ A..., uPA..., μ PA...,
uPB...: μ PB..., uPC..., μ PC...,
uPD...: μ PD...

Ref. No.	Part No.	Description			Remarks		Ref. No.	Part No.	Description			Remarks								
*	A-2007-131-A	AUDIO BOARD, COMPLETE			< CONNECTOR >				< CONNECTOR >											
***** (including MOTOR BOARD)																				
< CAPACITOR >																				
C301	1-162-289-31	CERAMIC	390PF	10%	50V				< IC >											
C302	1-126-968-11	ELECT	100uF	20%	6.3V				< COIL >											
C303	1-162-282-31	CERAMIC	100PF	10%	50V				< TRANSISTOR >											
C304	1-130-483-00	MYLAR	0.01uF	5%	50V				< RESISTOR >											
C305	1-107-715-11	ELECT	22uF	20%	16V				< RESISTOR >											
C311	1-162-289-31	CERAMIC	390PF	10%	50V				< RESISTOR >											
C313	1-162-282-31	CERAMIC	100PF	10%	50V				< RESISTOR >											
C314	1-130-487-00	MYLAR	0.022uF	5%	50V				< RESISTOR >											
C315	1-126-233-11	ELECT	22uF	20%	25V				< RESISTOR >											
C331	1-137-427-11	FILM	120PF	5%	50V				< RESISTOR >											
C332	1-162-288-31	CERAMIC	330PF	10%	50V				< RESISTOR >											
C333	1-162-209-31	CERAMIC	27PF	5%	50V				< RESISTOR >											
C401	1-162-289-31	CERAMIC	390PF	10%	50V				< RESISTOR >											
C402	1-126-968-11	ELECT	100uF	20%	6.3V				< RESISTOR >											
C403	1-162-282-31	CERAMIC	100PF	10%	50V				< RESISTOR >											
C404	1-130-483-00	MYLAR	0.01uF	5%	50V				< RESISTOR >											
C405	1-107-715-11	ELECT	22uF	20%	16V				< RESISTOR >											
C411	1-162-289-31	CERAMIC	390PF	10%	50V				< RESISTOR >											
C413	1-162-282-31	CERAMIC	100PF	10%	50V				< RESISTOR >											
C414	1-130-487-00	MYLAR	0.022uF	5%	50V				< RESISTOR >											
C415	1-126-233-11	ELECT	22uF	20%	25V				< RESISTOR >											
C431	1-137-427-11	FILM	120PF	5%	50V				< RESISTOR >											
C432	1-162-288-31	CERAMIC	330PF	10%	50V				< RESISTOR >											
C433	1-162-209-31	CERAMIC	27PF	5%	50V				< RESISTOR >											
C601	1-104-396-11	ELECT	10uF	20%	16V				< RESISTOR >											
C602	1-104-396-11	ELECT	10uF	20%	16V				< RESISTOR >											
C611	1-124-907-11	ELECT	10uF	20%	50V				< RESISTOR >											
C612	1-124-907-11	ELECT	10uF	20%	50V				< RESISTOR >											
C621	1-137-150-11	FILM	0.01uF	5%	100V				< RESISTOR >											
C622	1-126-961-11	ELECT	2.2uF	20%	50V				< RESISTOR >											
C623	1-136-155-00	FILM	0.015uF	5%	50V				< RESISTOR >											
C624	1-130-481-00	MYLAR	0.0068uF	5%	50V				< RESISTOR >											
C625	1-130-481-00	MYLAR	0.0068uF	5%	50V				< RESISTOR >											
C627	1-124-903-11	ELECT	1uF	20%	50V				< RESISTOR >											
C628	1-136-153-00	FILM	0.01uF	5%	50V				< RESISTOR >											
C642	1-104-664-11	ELECT	47uF	20%	16V				< RESISTOR >											
C651	1-161-494-00	CERAMIC	0.022uF		25V				< RESISTOR >											
									R601	1-249-409-11	CARBON	220								
									R602	1-249-409-11	CARBON	220								
									R608	1-249-409-11	CARBON	220								
									R609	1-249-433-11	CARBON	22K								
									R611	1-249-409-11	CARBON	220								

Ref. No.	Part No.	Description	Remarks			Ref. No.	Part No.	Description	Remarks		
R612	1-249-409-11	CARBON	220	5%	1/4W	C140	1-110-501-11	CERAMIC CHIP	0.33uF	50V	
△R621	1-212-851-00	FUSIBLE	5.6	5%	1/4W F	C154	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
△R622	1-212-851-00	FUSIBLE	5.6	5%	1/4W F	C161	1-164-005-11	CERAMIC CHIP	0.47uF	25V	
R623	1-249-432-11	CARBON	18K	5%	1/4W	C162	1-164-232-11	CERAMIC CHIP	0.01uF	50V	
R624	1-249-432-11	CARBON	18K	5%	1/4W	C163	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
R625	1-249-429-11	CARBON	10K	5%	1/4W	C164	1-163-145-00	CERAMIC CHIP	0.0015uF	5%	50V
R651	1-247-856-00	CARBON	11K	5%	1/4W	C165	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
R652	1-247-856-00	CARBON	11K	5%	1/4W	C166	1-163-137-00	CERAMIC CHIP	680PF	5%	50V
R653	1-249-441-11	CARBON	100K	5%	1/4W	C167	1-163-121-00	CERAMIC CHIP	150PF	5%	50V
< VARIABLE RESISTOR >											
RV301	1-238-598-11	RES, ADJ, CARBON	2.2K			C169	1-163-121-00	CERAMIC CHIP	150PF	5%	50V
RV311	1-238-598-11	RES, ADJ, CARBON	2.2K			C170	1-163-099-00	CERAMIC CHIP	18PF	5%	50V
RV341	1-238-551-11	RES, ADJ, CARBON	220K			C171	1-163-237-11	CERAMIC CHIP	27PF	5%	50V
RV401	1-238-598-11	RES, ADJ, CARBON	2.2K			C173	1-163-038-91	CERAMIC CHIP	0.1uF	25V	
RV411	1-238-598-11	RES, ADJ, CARBON	2.2K			C174	1-163-038-91	CERAMIC CHIP	0.1uF	25V	
RV441	1-238-551-11	RES, ADJ, CARBON	220K			C175	1-163-038-91	CERAMIC CHIP	0.1uF	25V	
RV651	1-238-599-11	RES, ADJ, CARBON	4.7K			C176	1-163-038-91	CERAMIC CHIP	0.1uF	25V	
RV652	1-238-599-11	RES, ADJ, CARBON	4.7K			C177	1-163-038-91	CERAMIC CHIP	0.1uF	25V	
< TRANSFORMER >											
T621	1-423-980-11	TRANSFORMER, BIAS OSCILLATION				C181	1-126-205-11	ELECT CHIP	47uF	20%	6.3V

*	A-4699-522-A	BD BOARD, COMPLETE				C182	1-126-393-11	ELECT	33uF	20%	10V

< CAPACITOR >											
C101	1-126-607-11	ELECT CHIP	47uF	20%	4V	C183	1-124-778-00	ELECT CHIP	22uF	20%	6.3V
C102	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V	C185	1-164-232-11	CERAMIC CHIP	0.01uF	50V	
C103	1-164-346-11	CERAMIC CHIP	1uF		16V	C188	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C105	1-163-038-91	CERAMIC CHIP	0.1uF		25V	C189	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C106	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	100V	< CONNECTOR >					
C107	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	100V	CNU101	1-770-014-11	CONNECTOR, FFC/FPC 16P			
C108	1-164-232-11	CERAMIC CHIP	0.01uF		50V	CNU102	1-778-874-11	CONNECTOR, FFC (LIF (NON-ZIF)) 19P			
C109	1-164-232-11	CERAMIC CHIP	0.01uF		50V	< FERRITE BEAD >					
C110	1-163-989-11	CERAMIC CHIP	0.033uF	10%	25V	FB101	1-414-234-11	INDUCTOR, FERRITE BEAD			
C111	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V	FB103	1-414-234-11	INDUCTOR, FERRITE BEAD			
C112	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V	< IC >					
C113	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	100V	IC101	8-752-080-62	IC CXA1992AR			
C114	1-164-005-11	CERAMIC CHIP	0.47uF		25V	IC102	8-759-429-32	IC BA5941FP-E2			
C115	1-126-607-11	ELECT CHIP	47uF	20%	4V	IC103	8-752-378-66	IC CXD2519Q			
C116	1-163-016-00	CERAMIC CHIP	0.0039uF	10%	50V	< JUMPER RESISTOR >					
C117	1-164-005-11	CERAMIC CHIP	0.47uF		25V	JW101	1-216-295-91	CONDUCTOR, CHIP (2012)			
C118	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V	JW104	1-216-295-91	CONDUCTOR, CHIP (2012)			
C119	1-163-038-91	CERAMIC CHIP	0.1uF		25V	< TRANSISTOR >					
C120	1-124-779-00	ELECT CHIP	10uF	20%	16V	Q101	8-729-010-08	TRANSISTOR MSB710-R			
C121	1-163-038-91	CERAMIC CHIP	0.1uF		25V	< RESISTOR >					
C122	1-164-232-11	CERAMIC CHIP	0.01uF		50V	R102	1-216-001-00	METAL CHIP	10	5%	1/10W
C123	1-163-038-91	CERAMIC CHIP	0.1uF		25V	R104	1-216-093-00	METAL CHIP	68K	5%	1/10W
C124	1-126-607-11	ELECT CHIP	47uF	20%	4V	R105	1-216-088-00	METAL CHIP	43K	5%	1/10W
C125	1-164-232-11	CERAMIC CHIP	0.01uF		50V	R106	1-216-088-00	METAL CHIP	43K	5%	1/10W
C126	1-163-038-91	CERAMIC CHIP	0.1uF		25V	R107	1-216-088-00	METAL CHIP	43K	5%	1/10W
C127	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	100V	< RESISTOR >					
C128	1-163-135-00	CERAMIC CHIP	560PF	5%	50V	< RESISTOR >					
C129	1-163-038-91	CERAMIC CHIP	0.1uF		25V	< RESISTOR >					
C130	1-164-336-11	CERAMIC CHIP	0.33uF		25V	< RESISTOR >					
C131	1-164-346-11	CERAMIC CHIP	1uF		16V	< RESISTOR >					

Note:
The components identified by mark ▲ or dotted line with mark ▲ are critical for safety.
Replace only with part number specified.

Note:
Les composants identifiés par une marque ▲ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

BD

BD LED

CD MOTOR

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks	
R108	1-216-088-00	METAL CHIP	43K 5% 1/10W			< SWITCH >		
R109	1-216-093-00	METAL CHIP	68K 5% 1/10W					
R114	1-216-101-00	METAL CHIP	150K 5% 1/10W					
R115	1-216-101-00	METAL CHIP	150K 5% 1/10W					
R116	1-216-061-00	METAL CHIP	3.3K 5% 1/10W			< VIBRATOR >		
R117	1-216-069-00	METAL CHIP	6.8K 5% 1/10W	X101	1-767-408-21	VIBRATOR, CRYSTAL (16.9344MHz)	*****	
R118	1-216-063-91	METAL CHIP	3.9K 5% 1/10W				*****	
R119	1-216-085-00	METAL CHIP	33K 5% 1/10W				*****	
R120	1-216-089-91	METAL GLAZE	47K 5% 1/10W	*	1-659-059-13	BD LED BOARD	*****	
R121	1-216-114-00	METAL GLAZE	510K 5% 1/10W				*****	
R122	1-216-097-91	METAL GLAZE	100K 5% 1/10W			< DIODE >		
R123	1-216-099-00	METAL CHIP	120K 5% 1/10W					
R124	1-216-091-00	METAL CHIP	56K 5% 1/10W	D201	8-719-032-98	DIODE SEL5820A		
R125	1-216-069-00	METAL CHIP	6.8K 5% 1/10W					
R126	1-216-063-91	METAL GLAZE	3.9K 5% 1/10W			< TRANSISTOR >		
R127	1-216-089-91	METAL GLAZE	47K 5% 1/10W	Q201	8-729-119-78	TRANSISTOR 2SC403SP-51		
R128	1-216-098-00	METAL CHIP	110K 5% 1/10W					
R129	1-216-025-91	METAL GLAZE	100 5% 1/10W			< RESISTOR >		
R130	1-216-079-00	METAL CHIP	18K 5% 1/10W					
R131	1-216-079-00	METAL CHIP	18K 5% 1/10W	R201	1-247-863-91	CARBON 22K 5% 1/4W	*****	
R132	1-216-061-00	METAL CHIP	3.3K 5% 1/10W	R202	1-249-411-11	CARBON 330 5% 1/4W	*****	
R133	1-216-061-00	METAL CHIP	3.3K 5% 1/10W	R203	1-249-437-11	CARBON 47K 5% 1/4W	*****	
R134	1-216-065-91	METAL CHIP	4.7K 5% 1/10W	*	A-4673-765-A	CD MOTOR BOARD, COMPLETE	*****	
R135	1-216-065-91	METAL CHIP	4.7K 5% 1/10W				*****	
R136	1-216-073-00	METAL CHIP	10K 5% 1/10W					
R137	1-216-065-91	METAL CHIP	4.7K 5% 1/10W	*	4-980-385-01	HOLDER (SW)		
R138	1-216-025-91	METAL GLAZE	100 5% 1/10W					
R156	1-216-081-00	METAL CHIP	22K 5% 1/10W			< CAPACITOR >		
R157	1-216-069-00	METAL CHIP	6.8K 5% 1/10W					
R158	1-216-001-00	METAL CHIP	10 5% 1/10W	C201	1-124-907-11	ELECT 10uF 20% 50V	*****	
R159	1-216-121-91	METAL GLAZE	1M 5% 1/10W	C202	1-164-159-21	CERAMIC 0.1uF 50V	*****	
R161	1-216-097-91	METAL GLAZE	100K 5% 1/10W	C203	1-124-907-11	ELECT 10uF 20% 50V	*****	
R162	1-216-073-00	METAL CHIP	10K 5% 1/10W			< CONNECTOR >		
R163	1-216-121-91	METAL GLAZE	1M 5% 1/10W					
R164	1-216-061-00	METAL CHIP	3.3K 5% 1/10W	*	CN201	1-568-947-11	PIN, CONNECTOR 9P	
R165	1-216-049-91	METAL GLAZE	1K 5% 1/10W			< IC >		
R166	1-216-073-00	METAL CHIP	10K 5% 1/10W					
R167	1-216-081-00	METAL CHIP	22K 5% 1/10W	IC201	8-759-365-94	IC TA8409S		
R168	1-216-073-00	METAL CHIP	10K 5% 1/10W					
R169	1-216-079-00	METAL CHIP	18K 5% 1/10W			< COIL >		
R170	1-216-081-00	METAL CHIP	22K 5% 1/10W	L201	1-408-117-00	INDUCTOR 10uH		
R171	1-216-073-00	METAL CHIP	10K 5% 1/10W					
R172	1-216-079-00	METAL CHIP	18K 5% 1/10W			< RESISTOR >		
R173	1-216-025-91	METAL GLAZE	100 5% 1/10W					
R174	1-216-033-00	METAL CHIP	220 5% 1/10W	R205	1-249-427-11	CARBON 6.8K 5% 1/4W	*****	
R175	1-216-025-91	METAL GLAZE	100 5% 1/10W	R206	1-249-425-11	CARBON 4.7K 5% 1/4W	*****	
R176	1-216-025-91	METAL GLAZE	100 5% 1/10W			< SWITCH >		
R177	1-216-025-91	METAL GLAZE	100 5% 1/10W					
R178	1-216-025-91	METAL GLAZE	100 5% 1/10W	S201	1-762-587-11	SWITCH, PUSH (1 KEY)	*****	
R179	1-216-025-91	METAL GLAZE	100 5% 1/10W				*****	
R180	1-216-025-91	METAL GLAZE	100 5% 1/10W					
R181	1-216-025-91	METAL GLAZE	100 5% 1/10W					
R188	1-216-037-00	METAL CHIP	330 5% 1/10W					
R190	1-216-097-91	METAL GLAZE	100K 5% 1/10W					
R191	1-216-105-91	METAL GLAZE	220K 5% 1/10W					

CD-A SW

CD-B1 SW

CD-B2 SW

DOOR SW

HEADPHONE-MIC

Ref. No.	Part No.	Description					Remarks	Ref. No.	Part No.	Description					Remarks
*	1-669-630-11	CD-A SW BOARD *****						*	1-669-632-11	CD-B2 SW BOARD *****					
< DIODE >															
D641	8-719-058-04	DIODE	SEL5223S-TP15 (NON-STOP)					R752	1-249-427-11	CARBON	6.8K	5%	1/4W	F	
< RESISTOR >								R753	1-249-429-11	CARBON	10K	5%	1/4W		
R731	1-249-425-11	CARBON	4.7K	5%	1/4W	F		R754	1-249-432-11	CARBON	18K	5%	1/4W		
R732	1-249-427-11	CARBON	6.8K	5%	1/4W	F		R755	1-249-436-11	CARBON	39K	5%	1/4W		
R733	1-249-429-11	CARBON	10K	5%	1/4W			R756	1-247-881-00	CARBON	120K	5%	1/4W		
R734	1-249-432-11	CARBON	18K	5%	1/4W		< SWITCH >								
R735	1-249-436-11	CARBON	39K	5%	1/4W		S681	1-554-303-21	SWITCH, TACTILE (▷▷)						
R736	1-247-881-00	CARBON	120K	5%	1/4W		S682	1-554-303-21	SWITCH, TACTILE (REPEAT)						
R737	1-247-881-00	CARBON	120K	5%	1/4W		S683	1-554-303-21	SWITCH, TACTILE (PLAY MODE)						
R741	1-247-807-31	CARBON	100	5%	1/4W		S684	1-554-303-21	SWITCH, TACTILE (1/ALL DISCS)						
< SWITCH >								S685	1-554-303-21	SWITCH, TACTILE (EDIT)					
S661	1-554-303-21	SWITCH, TACTILE (DISC 1)					S686	1-554-303-21	SWITCH, TACTILE (◁◁)						
S662	1-554-303-21	SWITCH, TACTILE (DISC 2)					S711	1-467-968-11	ENCODER, ROTARY (◀◀AMS ▷▷)						
S663	1-554-303-21	SWITCH, TACTILE (DISC 3)					*****								
S664	1-554-303-21	SWITCH, TACTILE (DISC 4)					*	1-664-016-11	DOOR SW BOARD						
S665	1-554-303-21	SWITCH, TACTILE (DISC 5)					*****								
S666	1-554-303-21	SWITCH, TACTILE (FLASH)					< CAPACITOR >								
S667	1-554-303-21	SWITCH, TACTILE (NON-STOP)					C691	1-164-159-21	CERAMIC	0.1uF	50V				
S668	1-554-303-21	SWITCH, TACTILE (LOOP)					< CONNECTOR >								

*	1-669-631-11	CD-B1 SW BOARD					CN661	1-506-481-11	PIN, CONNECTOR 2P						
< CONNECTOR >								< SWITCH >							
* CN642	1-568-943-11	PIN, CONNECTOR 5P					S691	1-771-057-11	SWITCH, PUSH (1 KEY) (▲ OPEN)						
< DIODE >								*****							
D645	8-719-057-10	DIODE	LNJ301MPUJAB (▷ CD PLAY)				*	A-4392-452-A	HEADPHONE-MIC BOARD, COMPLETE						
D646	8-719-057-97	DIODE	SEL5923A-TP15 (■ PAUSE)				*****								
D647	8-719-057-10	DIODE	LNJ301MPUJAB (▷ CD PLAY)				< CAPACITOR >								
< RESISTOR >								C760	1-162-306-11	CERAMIC	0.01uF	20%	16V		
R745	1-249-419-11	CARBON	1.5K	5%	1/4W	F	C761	1-126-961-11	ELECT	2.2uF	20%	50V			
R746	1-249-421-11	CARBON	2.2K	5%	1/4W	F	C764	1-162-294-31	CERAMIC	0.001uF	10%	50V			
R747	1-247-843-11	CARBON	3.3K	5%	1/4W		C765	1-162-215-31	CERAMIC	47PF	5%	50V			
R748	1-249-425-11	CARBON	4.7K	5%	1/4W	F	C766	1-162-290-31	CERAMIC	470PF	10%	50V			
R749	1-247-807-31	CARBON	100	5%	1/4W		C767	1-162-215-31	CERAMIC	47PF	5%	50V			
R750	1-247-807-31	CARBON	100	5%	1/4W		C769	1-162-282-31	CERAMIC	100PF	10%	50V			
R751	1-247-807-31	CARBON	100	5%	1/4W		C770	1-126-961-11	ELECT	2.2uF	20%	50V			
< SWITCH >								C771	1-126-959-11	ELECT	0.47uF	20%	50V		
S676	1-554-303-21	SWITCH, TACTILE (▷)					C773	1-126-964-11	ELECT	10uF	20%	50V			
S677	1-554-303-21	SWITCH, TACTILE (■)					C774	1-126-964-11	ELECT	10uF	20%	50V			
S678	1-554-303-21	SWITCH, TACTILE (■)					C775	1-162-294-31	CERAMIC	0.001uF	10%	50V			
S679	1-554-303-21	SWITCH, TACTILE (DISC SKIP)					C776	1-162-294-31	CERAMIC	0.001uF	10%	50V			
*****								C794	1-164-159-21	CERAMIC	0.1uF	50V			
							C795	1-164-159-21	CERAMIC	0.1uF	50V				
							C797	1-162-302-11	CERAMIC	0.0022uF	20%	16V			
							C798	1-164-159-21	CERAMIC	0.1uF	50V				
							C799	1-164-159-21	CERAMIC	0.1uF	50V				

HEADPHONE-MIC

LEAF SWITCH

LED

MAIN

Ref. No.	Part No.	Description				Remarks	Ref. No.	Part No.	Description				Remarks
< CONNECTOR >													
* CN701	1-568-935-11	PIN, CONNECTOR 8P					*	1-664-017-11	LED BOARD				*****
		< IC >							< CONNECTOR >				
IC760	8-759-634-51	IC M5218AP					CN671	1-506-481-11	PIN, CONNECTOR 2P				
		< JACK >							< DIODE >				
J760	1-770-226-41	JACK (LARGE TYPE) (PHONES)					D671	8-719-058-03	DIODE SEL5423E-TP15				
J761	1-770-226-41	JACK (LARGE TYPE) (MIC)					D672	8-719-058-03	DIODE SEL5423E-TP15				
		< RESISTOR >					D673	8-719-058-03	DIODE SEL5423E-TP15				
R760	1-249-429-11	CARBON	10K	5%	1/4W		D674	8-719-058-03	DIODE SEL5423E-TP15				
R761	1-249-417-11	CARBON	1K	5%	1/4W	F							
R764	1-249-441-11	CARBON	100K	5%	1/4W								*****
R765	1-249-417-11	CARBON	1K	5%	1/4W	F							
R766	1-247-863-91	CARBON	22K	5%	1/4W								
R767	1-249-429-11	CARBON	10K	5%	1/4W								
R769	1-247-885-00	CARBON	180K	5%	1/4W								
R770	1-247-807-31	CARBON	100	5%	1/4W								
		< VARIABLE RESISTOR >											
RV760	1-225-366-11	RES, VAR, CARBON 50K (MIC LEVEL)											

*	1-650-669-11	LEAF SWITCH BOARD					*	A-4392-438-A	MAIN BOARD, COMPLETE (D390/G5500)				*****

		< CONNECTOR >											
* CN1001	1-568-854-11	SOCKET, CONNECTOR 11P					*	A-4392-474-A	MAIN BOARD, COMPLETE (D790)				*****
CN1001	1-695-372-31	PIN, CONNECTOR (PC BOARD) 11P											
		< TRANSISTOR >											
Q1001	8-749-010-90	TRANSISTOR PHOTO REFLECTOR					*	A-4403-894-A	MAIN BOARD, COMPLETE (XB50: AEP, UK)				*****
		NJL5165KA-H											
Q1002	8-749-010-90	TRANSISTOR PHOTO REFLECTOR											
		NJL5165KA-H											
		< RESISTOR >											
R1001	1-247-818-11	CARBON	300	5%	1/4W		C100	1-164-159-21	CERAMIC	0.1uF		50V	
R1002	1-247-820-11	CARBON	360	5%	1/4W		C101	1-162-288-31	CERAMIC	330PF	10%	50V	(XB50/XB60)
R1003	1-249-414-11	CARBON	560	5%	1/4W		C102	1-162-282-31	CERAMIC	100PF	10%	50V	
R1004	1-247-834-11	CARBON	1.3K	5%	1/4W		C103	1-162-282-31	CERAMIC	100PF	10%	50V	
R1005	1-247-818-11	CARBON	300	5%	1/4W		C104	1-126-961-11	ELECT	2.2uF	20%	50V	
		< SWITCH >											
S1001	1-692-832-11	SWITCH, PUSH (1 KEY) (A PLAY)					C105	1-162-600-11	CERAMIC	0.0047uF	30%	16V	
S1002	1-692-832-11	SWITCH, PUSH (1 KEY) (B PLAY)					C106	1-162-301-11	CERAMIC	0.0015uF	30%	16V	
S1004	1-571-281-21	SWITCH, LEAF (A HALF)					C107	1-126-956-91	ELECT	0.1uF	20%	50V	
S1005	1-571-281-21	SWITCH, LEAF (A CrO2)					C108	1-126-967-11	ELECT	47uF	20%	10V	(XB50/XB60)
S1006	1-572-248-11	SWITCH, LEAF (REC A)					C121	1-162-286-21	CERAMIC	220PF	10%	50V	
S1007	1-572-248-11	SWITCH, LEAF (B HALF)					C122	1-162-286-21	CERAMIC	220PF	10%	50V	(XB33/XB44/XB50/XB60)
S1008	1-571-281-21	SWITCH, LEAF (B CrO2)					C123	1-162-306-11	CERAMIC	0.01uF	20%	16V	
S1009	1-571-281-21	SWITCH, LEAF (REC B)					C131	1-136-495-11	FILM	0.068uF	5%	50V	(XB50/XB60)

							C132	1-136-495-11	FILM	0.068uF	5%	50V	(XB50/XB60)
							C133	1-164-159-21	CERAMIC	0.1uF		50V	(XB50/XB60)

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
C134	1-164-159-21	CERAMIC	0.1uF 50V (XB50/XB60)	C253	1-130-493-00	MYLAR	0.068uF 5% 50V
C151	1-162-288-31	CERAMIC	330PF 10% 50V (XB50/XB60)	C254	1-130-493-00	MYLAR	0.068uF 5% 50V
C152	1-162-282-31	CERAMIC	100PF 10% 50V	C255	1-130-486-00	MYLAR	0.018uF 10% 50V
C153	1-162-282-31	CERAMIC	100PF 10% 50V	C256	1-130-486-00	MYLAR	0.018uF 10% 50V
C154	1-126-961-11	ELECT	2.2uF 20% 50V	C257	1-130-480-00	MYLAR	0.0056uF 5% 50V
C155	1-162-600-11	CERAMIC	0.0047uF 30% 16V	C258	1-130-479-00	MYLAR	0.0047uF 5% 50V
C156	1-162-301-11	CERAMIC	0.0015uF 30% 16V	C259	1-130-474-00	MYLAR	0.0018uF 5% 50V
C157	1-126-956-91	ELECT	0.1uF 20% 50V	C260	1-126-964-11	ELECT	10uF 20% 50V
C158	1-126-967-11	ELECT	47uF 20% 10V (XB50/XB60)	C261	1-126-964-11	ELECT	10uF 20% 50V
C171	1-162-286-21	CERAMIC	220PF 10% 50V	C262	1-130-483-00	MYLAR	0.01uF 5% 50V
C172	1-162-286-21	CERAMIC	220PF 10% 50V (XB33/XB44/XB50/XB60)	C263	1-136-169-00	FILM	0.22uF 5% 50V
C173	1-162-306-11	CERAMIC	0.01uF 20% 16V	C264	1-136-169-00	FILM	0.22uF 5% 50V
C181	1-136-495-11	FILM	0.068uF 5% 50V (XB50/XB60)	C276	1-126-964-11	ELECT	10uF 20% 50V
C182	1-136-495-11	FILM	0.068uF 5% 50V (XB50/XB60)	C281	1-126-933-11	ELECT	100uF 20% 10V
C183	1-164-159-21	CERAMIC	0.1uF 50V (XB50/XB60)	C282	1-126-961-11	ELECT	2.2uF 20% 50V
C184	1-164-159-21	CERAMIC	0.1uF 50V (XB50/XB60)	C283	1-126-933-11	ELECT	100uF 20% 10V
C191	1-126-963-11	ELECT	4.7uF 20% 50V (XB44)	C284	1-126-923-11	ELECT	220uF 20% 10V
C192	1-164-159-21	CERAMIC	0.1uF 50V (XB44)	C291	1-126-959-11	ELECT	0.47uF 20% 50V
C201	1-136-167-00	FILM	0.15uF 5% 50V (D790/XB44/XB60)	C301	1-126-967-11	ELECT	47uF 20% 10V
C201	1-136-169-00	FILM	0.22uF 5% 50V (D390/G5500/XB33/XB50)	C302	1-164-159-21	CERAMIC	0.1uF 50V
C202	1-136-167-00	FILM	0.15uF 5% 50V (D790/XB44/XB60)	C303	1-136-173-00	FILM	0.47uF 5% 50V
C202	1-136-169-00	FILM	0.22uF 5% 50V (D390/G5500/XB33/XB50)	C304	1-126-926-11	ELECT	1000uF 20% 10V
C203	1-130-493-00	MYLAR	0.068uF 5% 50V	C305	1-162-306-11	CERAMIC	0.01uF 20% 16V
C204	1-130-493-00	MYLAR	0.068uF 5% 50V	C309	1-102-518-11	CERAMIC	33PF 5% 50V
C205	1-130-486-00	MYLAR	0.018uF 10% 50V	C310	1-102-516-11	CERAMIC	27PF 5% 50V
C206	1-130-486-00	MYLAR	0.018uF 10% 50V	C311	1-164-159-21	CERAMIC	0.1uF 50V
C207	1-130-480-00	MYLAR	0.0056uF 5% 50V	C315	1-126-933-11	ELECT	100uF 20% 10V
C208	1-130-479-00	MYLAR	0.0047uF 5% 50V	C316	1-136-165-00	FILM	0.1uF 5% 50V
C209	1-130-474-00	MYLAR	0.0018uF 5% 50V	C319	1-126-933-11	ELECT	100uF 20% 10V
C210	1-126-964-11	ELECT	10uF 20% 50V	C320	1-126-933-11	ELECT	2.2uF 20% 50V
C211	1-126-964-11	ELECT	10uF 20% 50V	C321	1-126-961-11	ELECT	2.2uF 20% 50V
C212	1-130-483-00	MYLAR	0.01uF 5% 50V	C322	1-126-933-11	ELECT	100uF 20% 10V
C213	1-136-169-00	FILM	0.22uF 5% 50V	C323	1-126-925-11	ELECT	470uF 20% 10V
C214	1-136-169-00	FILM	0.22uF 5% 50V	C324	1-164-159-21	CERAMIC	0.1uF 50V
C215	1-162-294-31	CERAMIC	0.001uF 10% 50V	C325	1-126-961-11	ELECT	2.2uF 20% 50V
C216	1-136-167-00	FILM	0.15uF 5% 50V	C326	1-126-967-11	ELECT	2.2uF 20% 50V
C221	1-126-967-11	ELECT	47uF 20% 10V	C327	1-126-933-11	ELECT	100uF 20% 10V
C222	1-126-967-11	ELECT	47uF 20% 10V	C328	1-126-933-11	ELECT	100uF 20% 10V
C223	1-126-964-11	ELECT	10uF 20% 50V	C329	1-126-968-11	ELECT	100uF 20% 50V
C224	1-162-290-31	CERAMIC	470PF 10% 50V	C330	1-126-968-11	ELECT	100uF 20% 50V
C226	1-126-964-11	ELECT	10uF 20% 50V	C331	1-126-964-11	ELECT	10uF 20% 50V
C231	1-109-889-11	ELECT	1uF 20% 50V	C332	1-126-947-11	ELECT	47uF 20% 35V
C251	1-136-167-00	FILM	0.15uF 5% 50V (D790/XB44/XB60)	C333	1-136-165-00	FILM	0.1uF 5% 50V
C251	1-136-169-00	FILM	0.22uF 5% 50V (D390/G5500/XB33/XB50)	C334	1-126-768-11	ELECT	2200uF 20% 16V
C252	1-136-167-00	FILM	0.15uF 5% 50V (D790/XB44/XB60)	C335	1-126-933-11	ELECT	100uF 20% 10V
C252	1-136-169-00	FILM	0.22uF 5% 50V (D390/G5500/XB33/XB50)	C336	1-130-479-00	MYLAR	0.0047uF 5% 50V

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks	
C1503	1-164-159-21	CERAMIC	0.1uF	50V	D914	8-719-200-82	DIODE 11ES2-NTA1B	
C1504	1-126-960-11	ELECT	1uF	20%	50V	D915	8-719-935-69	DIODE UZL-11M1-TA
C1505	1-126-964-11	ELECT	10uF	20%	50V	D951	8-719-991-33	DIODE 1SS133T-77
C1506	1-126-964-11	ELECT	10uF	20%	50V	D952	8-719-991-33	DIODE 1SS133T-77
C1507	1-126-960-11	ELECT	1uF	20%	50V			< FERRITE BEAD >
C1508	1-126-933-11	ELECT	100uF	20%	10V			
C1523	1-126-933-11	ELECT	100uF	20%	16V	FB301	1-412-473-21	INDUCTOR 0uH (XB60)
C1531	1-164-159-21	CERAMIC	0.1uF	50V		FB302	1-412-473-21	INDUCTOR 0uH (EXCEPT XB60)
C1532	1-164-159-21	CERAMIC	0.1uF	50V				< IC >
C1533	1-164-159-21	CERAMIC	0.1uF	50V				
C1534	1-126-935-11	ELECT	470uF	20%	16V	IC101	8-759-634-50	IC M5218AL
C1551	1-130-479-00	MYLAR	0.0047uF	5%	50V	IC102	8-759-000-48	IC MC14052BCP
C1552	1-162-290-31	CERAMIC	470PF	10%	50V	IC201	8-759-460-02	IC M62427FP-A
C1553	1-164-159-21	CERAMIC	0.1uF	50V		IC231	8-759-634-50	IC M5218AL
C1554	1-126-960-11	ELECT	1uF	20%	50V	IC281	8-759-111-68	IC uPC1237HA
C1555	1-126-964-11	ELECT	10uF	20%	50V	IC301	8-759-499-02	IC uPD780018YGF-027-3BA
C1556	1-126-964-11	ELECT	10uF	20%	50V			(D390/D790/G5500)
C1557	1-126-960-11	ELECT	1uF	20%	50V	IC301	8-759-531-31	IC uPD780018YGF-028-3BA
C1558	1-126-933-11	ELECT	100uF	20%	10V			(XB33/XB44/XB50/XB60)
					IC302	8-759-635-63	IC M51943BSL-TP	
					IC391	8-749-923-04	IC TOTX178 (XB33/XB44/XB50/XB60)	
CN101	1-778-982-11	CONNECTOR, BOARD TO BOARD 13P			IC901	8-759-288-53	IC LA5617	
* CN102	1-568-836-11	SOCKET, CONNECTOR 17P			IC902	8-759-604-86	IC M5F7807L	
CN105	1-564-506-11	PLUG, CONNECTOR 3P (XB44)			IC903	8-759-231-53	IC M5F7805L	
* CN201	1-568-832-11	SOCKET, CONNECTOR 13P			IC904	8-759-231-58	IC NJM7812FA (XB33/XB44/XB50/XB60)	
			(EXCEPT XB50/XB60)					
CN201	1-568-834-11	SOCKET, CONNECTOR 15P (XB50/XB60)			IC904	8-759-604-39	IC M5F78M12L (D390/D790/G5500)	
CN202	1-568-802-11	SOCKET, CONNECTOR 19P			IC1501	8-759-363-21	IC HA12203NT	
* CN203	1-568-936-11	PIN, CONNECTOR 9P			IC1502	8-759-822-09	IC LB1641	
CN205	1-568-838-11	SOCKET, CONNECTOR 21P						< JACK >
* CN206	1-568-830-11	SOCKET, CONNECTOR 11P			J101	1-695-188-31	JACK, PIN 4P (PHONO, VIDEO (AUDIO))	
* CN207	1-568-449-11	HOUSING, CONNECTOR (PC BOARD) 3P					(D390/D790/G5500)	
					J101	1-784-275-11	JACK, PIN 6P (PHONO, VIDEO (AUDIO)IN, OUT)	
							(XB33/XB44/XB50/XB60)	
			< DIODE >					
D141	8-719-991-33	DIODE 1SS133T-77						< COIL >
D191	8-719-991-33	DIODE 1SS133T-77 (XB44)						
D192	8-719-991-33	DIODE 1SS133T-77 (XB44)						
D281	8-719-991-33	DIODE 1SS133T-77			L131	1-420-872-00	COIL, AIR-CORE (XB50/XB60)	
D291	8-719-991-33	DIODE 1SS133T-77			L181	1-420-872-00	COIL, AIR-CORE (XB50/XB60)	
D301	8-719-200-82	DIODE 11ES2-NTA1B			L301	1-410-509-11	INDUCTOR 10uH	
D302	8-719-200-82	DIODE 11ES2-NTA1B			L393	1-410-515-11	INDUCTOR 33uH	
D303	8-719-991-33	DIODE 1SS133T-77						< TRANSISTOR >
D304	8-719-991-33	DIODE 1SS133T-77			Q101	8-729-141-30	TRANSISTOR 2SC3623ATP-LK	
D305	8-719-991-33	DIODE 1SS133T-77					(XB33/XB44/XB50/XB60)	
D306	8-719-991-33	DIODE 1SS133T-77			Q102	8-729-029-40	TRANSISTOR DTA124ESA-TP	
D307	8-719-991-33	DIODE 1SS133T-77					(XB33/XB44/XB50/XB60)	
D309	8-719-991-33	DIODE 1SS133T-77 (D790/XB44/XB60)			Q103	8-729-029-86	TRANSISTOR DTC124ESA-TP	
D902	8-719-200-82	DIODE 11ES2-NTA1B					(XB33/XB44/XB50/XB60)	
D903	8-719-200-82	DIODE 11ES2-NTA1B			Q141	8-729-140-82	TRANSISTOR 2SA988TP-PAFAEA	
D904	8-719-200-82	DIODE 11ES2-NTA1B			Q142	8-729-140-84	TRANSISTOR 2SC1841TP-PAFAEA	
D905	8-719-200-82	DIODE 11ES2-NTA1B			Q151	8-729-141-30	TRANSISTOR 2SC3623ATP-LK	
D906	8-719-200-82	DIODE 11ES2-NTA1B					(XB33/XB44/XB50/XB60)	
D907	8-719-200-82	DIODE 11ES2-NTA1B			Q191	8-729-119-76	TRANSISTOR 2SA1175TP-HFE (XB44)	
D908	8-719-200-82	DIODE 11ES2-NTA1B			Q192	8-729-111-29	TRANSISTOR 2SD1616-TP-LK (XB44)	
D909	8-719-200-82	DIODE 11ES2-NTA1B			Q201	8-729-029-86	TRANSISTOR DTC124ESA-TP	
D910	8-719-982-26	DIODE MTZJ-T-77-33B					(D790/XB44/XB60)	
D911	8-719-109-66	DIODE MTZJ-T-77-3.3B			Q202	8-729-119-78	TRANSISTOR 2SC2785TP-HFE	
D912	8-719-991-33	DIODE 1SS133T-77			Q203	8-729-119-78	TRANSISTOR 2SC2785TP-HFE	
D913	8-719-200-82	DIODE 11ES2-NTA1B			Q204	8-729-141-30	TRANSISTOR 2SC3623ATP-LK	
					Q231	8-729-029-40	TRANSISTOR DTA124ESA-TP	
					Q232	8-729-029-40	TRANSISTOR DTA124ESA-TP	

Ref. No.	Part No.	Description			Remarks		Ref. No.	Part No.	Description			Remarks	
Q251	8-729-029-86	TRANSISTOR	DTC124ESA-TP				R153	1-249-437-11	CARBON	47K	5%	1/4W	
				(D790/XB44/XB60)			R154	1-249-417-11	CARBON	1K	5%	1/4W	F
Q252	8-729-620-05	TRANSISTOR	2SC2603TP-EF				R155	1-247-897-11	CARBON	560K	5%	1/4W	
Q253	8-729-620-05	TRANSISTOR	2SC2603TP-EF				R156	1-249-437-11	CARBON	47K	5%	1/4W	
Q254	8-729-141-30	TRANSISTOR	2SC3623ATP-LK				R157	1-249-417-11	CARBON	1K	5%	1/4W	F
Q281	8-729-029-86	TRANSISTOR	DTC124ESA-TP				R158	1-249-441-11	CARBON	100K	5%	1/4W	
Q282	8-729-029-40	TRANSISTOR	DTA124ESA-TP				R159	1-247-815-91	CARBON	220	5%	1/4W	
Q283	8-729-029-86	TRANSISTOR	DTC124ESA-TP				R171	1-249-424-11	CARBON	3.9K	5%	1/4W	F
Q301	8-729-620-05	TRANSISTOR	2SC2603TP-EF				R172	1-247-887-00	CARBON	220K	5%	1/4W	
Q901	8-729-040-20	TRANSISTOR	RT1P137L-TP				R173	1-249-426-11	CARBON	5.6K	5%	1/4W	
Q902	8-729-029-86	TRANSISTOR	DTC124ESA-TP				R174	1-249-429-11	CARBON	10K	5%	1/4W	
							R176	1-249-417-11	CARBON	1K	5%	1/4W	F
Q903	8-729-026-68	TRANSISTOR	2SD2525(TP)				R177	1-249-441-11	CARBON	100K	5%	1/4W	
Q904	8-729-030-19	TRANSISTOR	2SB1640(TP)				R181	1-260-076-11	CARBON	10	5%	1/2W	
Q905	8-729-040-20	TRANSISTOR	RT1P137L-TP				R182	1-260-076-11	CARBON	10	5%	1/2W	
Q906	8-729-029-40	TRANSISTOR	DTA124ESA-TP				R183	1-260-091-11	CARBON	220	5%	1/2W	
Q907	8-729-620-05	TRANSISTOR	2SC2603TP-EF				R184	1-260-091-11	CARBON	220	5%	1/2W	
Q1531	8-729-801-93	TRANSISTOR	2SD1387-34-TP				R191	1-249-425-11	CARBON	4.7K	5%	1/4W	F
Q1532	8-729-029-66	TRANSISTOR	DTC114ESA-TP				R192	1-249-441-11	CARBON	100K	5%	1/4W	
Q1533	8-729-029-66	TRANSISTOR	DTC114ESA-TP				R193	1-249-421-11	CARBON	2.2K	5%	1/4W	F
Q1534	8-729-119-77	TRANSISTOR	2SA1175TP-FEK				R194	1-249-437-11	CARBON	47K	5%	1/4W	
Q1535	8-729-029-66	TRANSISTOR	DTC114ESA-TP				R195	1-249-437-11	CARBON	47K	5%	1/4W	
< RESISTOR >													
R101	1-249-417-11	CARBON	1K	5%	1/4W	F	R192	1-249-441-11	CARBON	100K	5%	1/4W	
							R193	1-249-421-11	CARBON	2.2K	5%	1/4W	F
R102	1-249-417-11	CARBON	1K	5%	1/4W	F	R194	1-249-437-11	CARBON	47K	5%	1/4W	
R103	1-249-437-11	CARBON	47K	5%	1/4W		R195	1-249-437-11	CARBON	47K	5%	1/4W	
R104	1-249-417-11	CARBON	1K	5%	1/4W	F	R201	1-249-429-11	CARBON	10K	5%	1/4W	
R105	1-247-897-11	CARBON	560K	5%	1/4W		R202	1-247-863-91	CARBON	22K	5%	1/4W	
R106	1-249-437-11	CARBON	47K	5%	1/4W		R203	1-249-441-11	CARBON	100K	5%	1/4W	
R107	1-249-417-11	CARBON	1K	5%	1/4W	F	R205	1-247-863-91	CARBON	22K	5%	1/4W	
R108	1-249-441-11	CARBON	100K	5%	1/4W		R206	1-249-421-11	CARBON	2.2K	5%	1/4W	F
R109	1-247-815-91	CARBON	220	5%	1/4W		R207	1-249-431-11	CARBON	15K	5%	1/4W	
							R209	1-249-441-11	CARBON	100K	5%	1/4W	
R121	1-249-424-11	CARBON	3.9K	5%	1/4W	F	R210	1-247-891-00	CARBON	330K	5%	1/4W	
R122	1-247-887-00	CARBON	220K	5%	1/4W		R210	1-247-896-11	CARBON	510K	5%	1/4W	
R123	1-249-426-11	CARBON	5.6K	5%	1/4W		R211	1-247-891-00	CARBON	330K	5%	1/4W	
							R211	1-249-441-11	CARBON	100K	5%	1/4W	
R124	1-249-429-11	CARBON	10K	5%	1/4W		R212	1-247-826-00	CARBON	620	5%	1/4W	
R125	1-249-441-11	CARBON	100K	5%	1/4W		R212	1-249-411-11	CARBON	330	5%	1/4W	
R126	1-249-417-11	CARBON	1K	5%	1/4W	F	R213	1-249-429-11	CARBON	10K	5%	1/4W	
R127	1-249-441-11	CARBON	100K	5%	1/4W		R214	1-249-437-11	CARBON	47K	5%	1/4W	
R131	1-260-076-11	CARBON	10	5%	1/2W		R215	1-247-903-00	CARBON	1M	5%	1/4W	
R132	1-260-076-11	CARBON	10	5%	1/2W		R216	1-249-429-11	CARBON	10K	5%	1/4W	
							R217	1-249-437-11	CARBON	47K	5%	1/4W	
R133	1-260-091-11	CARBON	220	5%	1/2W		R221	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R134	1-260-091-11	CARBON	220	5%	1/2W		R222	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R140	1-249-429-11	CARBON	10K	5%	1/4W		R222	1-249-425-11	CARBON	4.7K	5%	1/4W	
R141	1-249-437-11	CARBON	47K	5%	1/4W		R222	1-249-425-11	CARBON	4.7K	5%	1/4W	
R142	1-249-429-11	CARBON	10K	5%	1/4W		R222	1-249-425-11	CARBON	4.7K	5%	1/4W	
△R147	1-215-893-11	METAL OXIDE	1.5K	5%	2W	F	R222	1-249-425-11	CARBON	4.7K	5%	1/4W	
△R147	1-216-457-00	METAL OXIDE	1.2K	5%	2W	F	R222	1-249-425-11	CARBON	4.7K	5%	1/4W	
△R147	1-216-458-11	METAL OXIDE	1.8K	5%	2W	F	R222	1-249-425-11	CARBON	4.7K	5%	1/4W	
R151	1-249-417-11	CARBON	1K	5%	1/4W	F	R222	1-249-425-11	CARBON	4.7K	5%	1/4W	
R152	1-249-417-11	CARBON	1K	5%	1/4W	F	R222	1-249-425-11	CARBON	4.7K	5%	1/4W	

Note:
The components identified by mark △ or dotted line with mark △ are critical for safety.
Replace only with part number specified.

Note:
Les composants identifiés par une marque △ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

MAIN

Ref. No.	Part No.	Description			Remarks	Ref. No.	Part No.	Description			Remarks
R226	1-249-421-11	CARBON	2.2K	5%	1/4W F	R316	1-249-429-11	CARBON	10K	5%	1/4W
R227	1-249-441-11	CARBON	100K	5%	1/4W	R318	1-249-429-11	CARBON	10K	5%	1/4W
R228	1-249-429-11	CARBON	10K	5%	1/4W	R319	1-249-429-11	CARBON	10K	5%	1/4W
R231	1-249-437-11	CARBON	47K	5%	1/4W	R320	1-249-429-11	CARBON	10K	5%	1/4W
R232	1-249-437-11	CARBON	47K	5%	1/4W	R322	1-249-425-11	CARBON	4.7K	5%	1/4W F
R234	1-247-886-11	CARBON	200K	5%	1/4W	R323	1-247-807-31	CARBON	100	5%	1/4W
R235	1-249-421-11	CARBON	2.2K	5%	1/4W F	R325	1-247-843-11	CARBON	3.3K	5%	1/4W
R236	1-249-441-11	CARBON	100K	5%	1/4W	R325	1-249-427-11	CARBON	6.8K	5%	1/4W F
R253	1-249-441-11	CARBON	100K	5%	1/4W	(XB50: AEP, UK/XB60: AEP, UK)					
R257	1-249-431-11	CARBON	15K	5%	1/4W	R325	1-249-431-11	CARBON	15K	5%	1/4W
R259	1-249-441-11	CARBON	100K	5%	1/4W	(XB33: SAF, AUS/XB44: SAF, AUS)					
R260	1-247-891-00	CARBON	330K	5%	1/4W	R326	1-249-415-11	CARBON	680	5%	1/4W F
					(XB50)	R326	1-249-425-11	CARBON	(XB33: SAF, AUS/XB44: SAF, AUS)		
R260	1-247-896-11	CARBON	510K	5%	1/4W	R326	1-249-425-11	CARBON	4.7K	5%	1/4W F
					(EXCEPT XB50)	R326	1-249-427-11	CARBON	(XB33: E, AR, MX/XB44: E, AR, MX)		
R261	1-247-891-00	CARBON	330K	5%	1/4W	R326	1-249-427-11	CARBON	6.8K	5%	1/4W F
					(D790/XB44/XB60)	R326	1-249-435-11	CARBON	(XB50: AEP, UK/XB6: AEP, UK)		
R261	1-249-441-11	CARBON	100K	5%	1/4W	R326	1-249-435-11	CARBON	33K	5%	1/4W
					(XB50)	R327	1-247-807-31	CARBON	(XB50: EE, CIS/XB60: EE, CIS)		
R262	1-247-826-00	CARBON	620	5%	1/4W	R328	1-247-807-31	CARBON	100	5%	1/4W
					(EXCEPT XB50)	R328	1-247-807-31	CARBON	(XB50: EE, CIS/XB60: EE, CIS)		
R262	1-249-411-11	CARBON	330	5%	1/4W	R330	1-247-807-31	CARBON	100	5%	1/4W
					(XB50)	R331	1-247-807-31	CARBON	100	5%	1/4W
R263	1-249-429-11	CARBON	10K	5%	1/4W	R332	1-247-807-31	CARBON	100	5%	1/4W
R264	1-249-437-11	CARBON	47K	5%	1/4W	R333	1-247-807-31	CARBON	100	5%	1/4W
R265	1-247-903-00	CARBON	1M	5%	1/4W	R339	1-247-807-31	CARBON	100	5%	1/4W
R266	1-249-429-11	CARBON	10K	5%	1/4W	R340	1-247-807-31	CARBON	100	5%	1/4W
R267	1-249-437-11	CARBON	47K	5%	1/4W	R341	1-247-807-31	CARBON	100	5%	1/4W
R271	1-249-425-11	CARBON	4.7K	5%	1/4W F	R342	1-247-807-31	CARBON	100	5%	1/4W
R272	1-249-425-11	CARBON	4.7K	5%	1/4W F	R344	1-247-807-31	CARBON	100	5%	1/4W
R276	1-249-421-11	CARBON	2.2K	5%	1/4W F	R345	1-247-807-31	CARBON	100	5%	1/4W
R277	1-249-441-11	CARBON	100K	5%	1/4W	R346	1-247-807-31	CARBON	100	5%	1/4W
R278	1-249-429-11	CARBON	10K	5%	1/4W	R349	1-247-807-31	CARBON	100	5%	1/4W
R281	1-249-429-11	CARBON	10K	5%	1/4W	R350	1-247-807-31	CARBON	100	5%	1/4W
R282	1-249-429-11	CARBON	10K	5%	1/4W	R351	1-247-807-31	CARBON	100	5%	1/4W
R283	1-249-435-11	CARBON	33K	5%	1/4W	R352	1-247-807-31	CARBON	100	5%	1/4W
R284	1-247-791-91	CARBON	22	5%	1/4W	R353	1-247-807-31	CARBON	100	5%	1/4W
R285	1-249-441-11	CARBON	100K	5%	1/4W	R354	1-247-807-31	CARBON	100	5%	1/4W
R286	1-249-429-11	CARBON	10K	5%	1/4W	R355	1-247-807-31	CARBON	100	5%	1/4W
R287	1-249-429-11	CARBON	10K	5%	1/4W	R356	1-247-807-31	CARBON	100	5%	1/4W
R288	1-249-438-11	CARBON	56K	5%	1/4W	R357	1-247-807-31	CARBON	100	5%	1/4W
R289	1-249-437-11	CARBON	47K	5%	1/4W	R359	1-247-807-31	CARBON	100	5%	1/4W
R291	1-247-863-91	CARBON	22K	5%	1/4W	R360	1-247-807-31	CARBON	100	5%	1/4W
R292	1-247-863-91	CARBON	22K	5%	1/4W	R366	1-247-807-31	CARBON	100	5%	1/4W
R293	1-247-843-11	CARBON	3.3K	5%	1/4W	R367	1-249-429-11	CARBON	10K	5%	1/4W
R293	1-249-421-11	CARBON	2.2K	5%	1/4W F	R368	1-247-843-11	CARBON	3.3K	5%	1/4W
					(EXCEPT XB50)	R369	1-249-429-11	CARBON	10K	5%	1/4W
R294	1-249-441-11	CARBON	100K	5%	1/4W	R384	1-249-429-11	CARBON	10K	5%	1/4W
R295	1-247-903-00	CARBON	1M	5%	1/4W	R395	1-247-807-31	CARBON	100	5%	1/4W
R301	1-249-413-11	CARBON	470	5%	1/4W F	R396	1-249-435-11	CARBON	33K	5%	1/4W
R302	1-249-425-11	CARBON	4.7K	5%	1/4W F	R397	1-247-807-31	CARBON	100	5%	1/4W
R303	1-249-437-11	CARBON	47K	5%	1/4W	R398	1-249-435-11	CARBON	33K	5%	1/4W
R304	1-249-437-11	CARBON	47K	5%	1/4W	R417	1-249-441-11	CARBON	100K	5%	1/4W
R305	1-249-429-11	CARBON	10K	5%	1/4W	R913	1-247-815-91	CARBON	220	5%	1/4W
R313	1-247-807-31	CARBON	100	5%	1/4W	R914	1-249-417-11	CARBON	1K	5%	1/4W F
R314	1-247-807-31	CARBON	100	5%	1/4W	R915	1-249-425-11	CARBON	4.7K	5%	1/4W F
					(XB50: AEP, UK/XB60: AEP, UK)	R315	1-247-807-31	CARBON	100	5%	1/4W
					(XB50: AEP, UK/XB60: AEP, UK)	R315	1-247-807-31	CARBON	100	5%	1/4W

Ref. No.	Part No.	Description	Remarks			Ref. No.	Part No.	Description	Remarks		
R916	1-247-815-91	CARBON	220	5%	1/4W				< VIBRATOR >		
R917	1-247-815-91	CARBON	220	5%	1/4W						
R918	1-249-425-11	CARBON	4.7K	5%	1/4W F	X301	1-760-489-11	VIBRATOR, CERAMIC (5MHz)			
R920	1-249-417-11	CARBON	1K	5%	1/4W F	X302	1-567-098-41	VIBRATOR, CRYSTAL (32.768MHz)			
R921	1-247-895-91	CARBON	470K	5%	1/4W				*****		
R951	1-249-425-11	CARBON	4.7K	5%	1/4W F	*	A-4403-872-A	PANEL BOARD, COMPLETE	*****		
R952	1-249-425-11	CARBON	4.7K	5%	1/4W F				(D390/G5500/XB33/XB50: EE, CIS)		
R1501	1-249-435-11	CARBON	33K	5%	1/4W	*	A-4403-885-A	PANEL BOARD, COMPLETE (XB60: AEP, UK)	*****		
R1502	1-249-417-11	CARBON	1K	5%	1/4W F	*	A-4403-892-A	PANEL BOARD, COMPLETE (XB50: AEP, UK)	*****		
R1503	1-249-426-11	CARBON	5.6K	5%	1/4W				*****		
R1504	1-247-840-00	CARBON	2.4K	5%	1/4W				*****		
R1505	1-247-863-91	CARBON	22K	5%	1/4W	*	A-4403-906-A	PANEL BOARD, COMPLETE	*****		
R1506	1-249-421-11	CARBON	2.2K	5%	1/4W F				(D790/XB44/XB60: EE, CIS)		
R1507	1-249-428-11	CARBON	8.2K	5%	1/4W F						
R1521	1-247-852-11	CARBON	7.5K	5%	1/4W						
R1522	1-249-422-11	CARBON	2.7K	5%	1/4W F	*	4-932-810-31	CUSHION (FL)	*****		
R1524	1-249-429-11	CARBON	10K	5%	1/4W	*	4-978-168-01	HOLDER, FL TUBE	*****		
R1525	1-249-432-11	CARBON	18K	5%	1/4W				< CAPACITOR >		
R1526	1-249-429-11	CARBON	10K	5%	1/4W						
R1527	1-249-429-11	CARBON	10K	5%	1/4W	C601	1-126-967-11	ELECT	47uF	20%	50V
						C602	1-162-306-11	CERAMIC	0.01uF	20%	16V
R1531	1-247-843-11	CARBON	3.3K	5%	1/4W	C603	1-126-963-11	ELECT	4.7uF	20%	50V
R1532	1-249-411-11	CARBON	330	5%	1/4W	C604	1-126-960-11	ELECT	1uF	20%	50V
R1533	1-249-427-11	CARBON	6.8K	5%	1/4W F	C606	1-126-960-11	ELECT	1uF	20%	50V
R1534	1-249-429-11	CARBON	10K	5%	1/4W	C608	1-126-382-11	ELECT	100uF	20%	6.3V
R1535	1-249-425-11	CARBON	4.7K	5%	1/4W F	C610	1-162-306-11	CERAMIC	0.01uF	20%	16V
R1536	1-249-425-11	CARBON	4.7K	5%	1/4W F	C611	1-162-306-11	CERAMIC	0.01uF	20%	16V
R1541	1-249-425-11	CARBON	4.7K	5%	1/4W F	C621	1-126-957-11	ELECT	0.22uF	20%	50V
R1542	1-249-425-11	CARBON	4.7K	5%	1/4W F	C622	1-162-306-11	CERAMIC	0.01uF	20%	16V
R1543	1-249-425-11	CARBON	4.7K	5%	1/4W F	C623	1-126-957-11	ELECT	0.22uF	20%	50V
R1544	1-249-417-11	CARBON	1K	5%	1/4W F	C624	1-136-159-00	FILM	0.033uF	5%	50V
R1545	1-249-437-11	CARBON	47K	5%	1/4W	C625	1-162-302-11	CERAMIC	0.0022uF	20%	16V
R1546	1-249-437-11	CARBON	47K	5%	1/4W	C626	1-126-957-11	ELECT	0.22uF	20%	50V
R1547	1-249-437-11	CARBON	47K	5%	1/4W	C632	1-126-957-11	ELECT	0.22uF	20%	50V
R1548	1-249-437-11	CARBON	47K	5%	1/4W	C641	1-162-286-21	CERAMIC	220PF	10%	50V
R1551	1-247-863-91	CARBON	22K	5%	1/4W	C642	1-162-286-21	CERAMIC	220PF	10%	50V
R1552	1-249-417-11	CARBON	1K	5%	1/4W F	C643	1-162-286-21	CERAMIC	220PF	10%	50V
R1553	1-249-426-11	CARBON	5.6K	5%	1/4W	C644	1-162-286-21	CERAMIC	220PF	10%	50V
R1554	1-247-840-00	CARBON	2.4K	5%	1/4W	C645	1-162-286-21	CERAMIC	220PF	10%	50V
R1555	1-247-863-91	CARBON	22K	5%	1/4W	C646	1-162-286-21	CERAMIC	220PF	10%	50V
R1556	1-249-421-11	CARBON	2.2K	5%	1/4W F	C647	1-162-286-21	CERAMIC	220PF	10%	50V
R1557	1-249-428-11	CARBON	8.2K	5%	1/4W F	C648	1-162-286-21	CERAMIC	220PF	10%	50V
						C649	1-162-286-21	CERAMIC	220PF	10%	50V
						C650	1-162-286-21	CERAMIC	220PF	10%	50V
						C651	1-162-286-21	CERAMIC	220PF	10%	50V
RV1501	1-238-598-11	RES, ADJ, CARBON	2.2K			C652	1-162-286-21	CERAMIC	220PF	10%	50V
RV1551	1-238-598-11	RES, ADJ, CARBON	2.2K			C653	1-162-286-21	CERAMIC	220PF	10%	50V
						C654	1-162-286-21	CERAMIC	220PF	10%	50V
						C655	1-162-286-21	CERAMIC	220PF	10%	50V
						C661	1-164-159-21	CERAMIC	0.1uF		
						C662	1-162-294-31	CERAMIC	0.001uF	10%	50V
						C663	1-136-165-00	FILM	0.1uF	5%	50V
											(D390/G5500/XB33/XB50)
RY141	1-755-141-11	RELAY									
TM131	1-537-240-31	TERMINAL BOARD (CHECKER PIN) (SPEAKER)									
			(D390/D790/G5500/XB33/XB44)								
TM131	1-537-801-11	TERMINAL BOARD (SPEAKER) (XB50/XB60)									
TM132	1-537-240-31	TERMINAL BOARD (CHECKER PIN)									
		(SURROUND SPEAKER) (D790/XB33/XB50/XB60)									

PANEL

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks				
< CONNECTOR >											
* CN601	1-568-836-11	SOCKET, CONNECTOR 17P		Q619	8-729-119-77	TRANSISTOR 2SA1175TP-FEK					
CN602	1-506-486-11	PIN, CONNECTOR 7P		Q621	8-729-119-77	TRANSISTOR 2SA1175TP-FEK					
* CN603	1-568-944-11	PIN, CONNECTOR 6P		< RESISTOR >							
* CN604	1-568-946-11	PIN, CONNECTOR 8P		R601	1-249-415-11	CARBON 680	5% 1/4W F (D790/XB44/XB60)				
< DIODE >											
D601	8-719-991-33	DIODE 1SS133T-77		R602	1-249-431-11	CARBON 15K	5% 1/4W (D790/XB44/XB60)				
D602	8-719-991-33	DIODE 1SS133T-77		R603	1-247-903-00	CARBON 1M	5% 1/4W				
D606	8-719-991-33	DIODE 1SS133T-77		R608	1-249-429-11	CARBON 10K	5% 1/4W				
D607	8-719-991-33	DIODE 1SS133T-77		R609	1-247-843-11	CARBON 3.3K	5% 1/4W				
D611	8-719-057-10	DIODE LNJ301MPUJAB (TUNER/BAND)		R610	1-247-843-11	CARBON 3.3K	5% 1/4W				
D612	8-719-057-10	DIODE LNJ301MPUJAB (TUNER/BAND)		R611	1-249-429-11	CARBON 10K	5% 1/4W				
D613	8-719-058-04	DIODE SEL5223S-TP15 (ENTER/NEXT)		R612	1-249-429-11	CARBON 10K	5% 1/4W				
D614	8-719-058-04	DIODE SEL5223S-TP15 (GROOVE)		R613	1-249-401-11	CARBON 47	5% 1/4W F				
D615	8-719-058-04	DIODE SEL5223S-TP15 (SUPER WOOFER)	(D790/XB44/XB60)	R614	1-249-429-11	CARBON 10K	5% 1/4W				
D616	8-719-058-04	DIODE SEL5223S-TP15 (EFFECT)		R615	1-249-429-11	CARBON 10K	5% 1/4W				
D617	8-719-058-04	DIODE SEL5223S-TP15 (ENTER)		R616	1-249-429-11	CARBON 10K	5% 1/4W				
D618	8-719-058-04	DIODE SEL5223S-TP15 (FILE 1)		R617	1-249-429-11	CARBON 10K	5% 1/4W				
D619	8-719-058-04	DIODE SEL5223S-TP15 (FILE 2)		R621	1-249-421-11	CARBON 2.2K	5% 1/4W F				
D620	8-719-058-04	DIODE SEL5223S-TP15 (FILE 3)		R622	1-249-437-11	CARBON 47K	5% 1/4W				
D621	8-719-058-04	DIODE SEL5223S-TP15 (FILE 4)		R623	1-247-895-91	CARBON 470K	5% 1/4W				
D622	8-719-058-04	DIODE SEL5223S-TP15 (FILE 5)		R624	1-249-421-11	CARBON 2.2K	5% 1/4W F				
D623	8-719-058-04	DIODE SEL5223S-TP15 (P FILE)		R625	1-249-437-11	CARBON 47K	5% 1/4W				
D624	8-719-058-04	DIODE SEL5223S-TP15 (MENU 2)		R626	1-247-895-91	CARBON 470K	5% 1/4W				
D625	8-719-058-04	DIODE SEL5223S-TP15 (MENU 1)		R633	1-247-897-11	CARBON 560K	5% 1/4W				
< FERRITE BEAD >											
FB601	1-412-473-21	INDUCTOR 0uH		R634	1-247-897-11	CARBON 560K	5% 1/4W				
< FILTER >											
FL601	1-517-619-11	INDICATOR TUBE, FLUORESCENT		R636	1-249-435-11	CARBON 33K	5% 1/4W				
< IC >											
IC601	8-759-493-77	IC TMP87CH74F-6638		R637	1-247-895-91	CARBON 470K	5% 1/4W				
IC602	8-759-459-84	IC NJL56H400		R641	1-249-427-11	CARBON 6.8K	5% 1/4W F				
< COIL >											
L601	1-410-509-11	INDUCTOR 10uH		R642	1-247-815-91	CARBON 220	5% 1/4W				
< TRANSISTOR >											
Q601	8-729-119-78	TRANSISTOR 2SC2785TP-HFE		R643	1-249-410-11	CARBON 270	5% 1/4W F				
Q601	8-729-620-05	TRANSISTOR 2SC2603TP-EF		R644	1-249-412-11	CARBON 390	5% 1/4W F				
Q602	8-729-118-00	TRANSISTOR 2SB1116-TP-LK		R645	1-249-413-11	CARBON 470	5% 1/4W F				
Q603	8-729-118-00	TRANSISTOR 2SB1116-TP-LK		R646	1-249-415-11	CARBON 680	5% 1/4W F				
Q604	8-729-119-77	TRANSISTOR 2SA1175TP-FEK		R647	1-249-416-11	CARBON 820	5% 1/4W F				
Q605	8-729-119-77	TRANSISTOR 2SA1175TP-FEK		R648	1-249-418-11	CARBON 1.2K	5% 1/4W F				
Q606	8-729-119-77	TRANSISTOR 2SA1175TP-FEK		R649	1-249-419-11	CARBON 1.5K	5% 1/4W F				
Q607	8-729-119-77	TRANSISTOR 2SA1175TP-FEK		R650	1-249-427-11	CARBON 6.8K	5% 1/4W F				
Q608	8-729-119-77	TRANSISTOR 2SA1175TP-FEK		R651	1-247-815-91	CARBON 220	5% 1/4W				
Q609	8-729-119-77	TRANSISTOR 2SA1175TP-FEK		R652	1-249-410-11	CARBON 270	5% 1/4W F				
Q610	8-729-119-77	TRANSISTOR 2SA1175TP-FEK		R653	1-249-412-11	CARBON 390	5% 1/4W F				
Q611	8-729-119-77	TRANSISTOR 2SA1175TP-FEK		R654	1-249-413-11	CARBON 470	5% 1/4W F				
Q614	8-729-119-77	TRANSISTOR 2SA1175TP-FEK		R655	1-249-415-11	CARBON 680	5% 1/4W F				
Q617	8-729-119-77	TRANSISTOR 2SA1175TP-FEK		R656	1-249-416-11	CARBON 820	5% 1/4W F				
Q618	8-729-119-77	TRANSISTOR 2SA1175TP-FEK		R657	1-249-418-11	CARBON 1.2K	5% 1/4W F				
< TRANSISTOR >											
Q658	1-249-427-11	CARBON 6.8K	5% 1/4W F								
Q659	1-247-815-91	CARBON 220	5% 1/4W								
R660	1-249-410-11	CARBON 270	5% 1/4W F								
R661	1-249-412-11	CARBON 390	5% 1/4W F								
R662	1-249-427-11	CARBON 6.8K	5% 1/4W F								
R663	1-247-815-91	CARBON 220	5% 1/4W								
R664	1-249-410-11	CARBON 270	5% 1/4W F								
R665	1-249-412-11	CARBON 390	5% 1/4W F								
R666	1-249-413-11	CARBON 470	5% 1/4W F								
R667	1-249-415-11	CARBON 680	5% 1/4W F								

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
R668	1-249-416-11	CARBON	820 5%	1/4W F	S621	1-554-303-21	SWITCH, TACTILE (POWER)
R669	1-249-418-11	CARBON	1.2K 5%	1/4W F	S622	1-554-303-21	SWITCH, TACTILE (CLOCK SET)
R670	1-249-419-11	CARBON	1.5K 5%	1/4W F	S623	1-554-303-21	SWITCH, TACTILE (REC)
R671	1-249-421-11	CARBON	2.2K 5%	1/4W F	S624	1-554-303-21	SWITCH, TACTILE (DAILY 1)
R672	1-247-843-11	CARBON	3.3K 5%	1/4W	S625	1-554-303-21	SWITCH, TACTILE (DAILY 2)
R673	1-249-425-11	CARBON	4.7K 5%	1/4W F	S626	1-554-303-21	SWITCH, TACTILE (SLEEP)
R674	1-249-427-11	CARBON	6.8K 5%	1/4W F	S628	1-554-303-21	SWITCH, TACTILE (WAVE)
R675	1-249-429-11	CARBON	10K 5%	1/4W	S629	1-554-303-21	SWITCH, TACTILE (KARAOKE PON/MPX)
R676	1-249-432-11	CARBON	18K 5%	1/4W	S630	1-554-303-21	SWITCH, TACTILE (SURROUND)
R677	1-249-436-11	CARBON	39K 5%	1/4W	S631	1-554-303-21	SWITCH, TACTILE (P FILE MEMORY)
R678	1-249-413-11	CARBON	470 5%	1/4W F	S634	1-554-303-21	SWITCH, TACTILE (PTY)
R681	1-249-429-11	CARBON	10K 5%	1/4W			(XB50: AEP, UK/XB60: AEP, UK)
R682	1-249-421-11	CARBON	2.2K 5%	1/4W F	S701	1-473-392-11	ENCODER, ROTARY (VOLUME)
R683	1-247-887-00	CARBON	220K 5%	1/4W			< VIBRATOR >
R684	1-249-421-11	CARBON	2.2K 5%	1/4W F			
R685	1-247-815-91	CARBON	220 5%	1/4W	X601	1-579-125-11	VIBRATOR, CERAMIC (8MHz)
R686	1-247-807-31	CARBON	100 5%	1/4W			*****
R687	1-247-807-31	CARBON	100 5%	1/4W			*****
R688	1-247-807-31	CARBON	100 5%	1/4W	*	A-4392-442-A	POWER AMP BOARD, COMPLETE
R689	1-247-807-31	CARBON	100 5%	1/4W			*****
							(D390/D790/G5500)
R690	1-247-807-31	CARBON	100 5%	1/4W (D790/XB44/XB60)	*	A-4403-868-A	POWER AMP BOARD, COMPLETE (XB60)

R691	1-247-807-31	CARBON	100 5%	1/4W	*	A-4403-888-A	POWER AMP BOARD, COMPLETE (XB44)
R692	1-247-807-31	CARBON	100 5%	1/4W			*****
R693	1-247-807-31	CARBON	100 5%	1/4W	*	A-4403-900-A	POWER AMP BOARD, COMPLETE (XB50)
R694	1-247-807-31	CARBON	100 5%	1/4W	*	A-4403-912-A	POWER AMP BOARD, COMPLETE (XB33)

R695	1-247-807-31	CARBON	100 5%	1/4W			< CAPACITOR >
R696	1-247-807-31	CARBON	100 5%	1/4W			
R697	1-247-807-31	CARBON	100 5%	1/4W			
R698	1-247-807-31	CARBON	100 5%	1/4W			
R699	1-247-807-31	CARBON	100 5%	1/4W	C801	1-128-582-11	ELECT
					C802	1-162-286-21	CERAMIC
R700	1-247-807-31	CARBON	100 5%	1/4W	C803	1-162-282-31	CERAMIC
					C804	1-126-967-11	ELECT
					C805	1-126-967-11	ELECT
					C806	1-126-967-11	ELECT
					C807	1-128-560-11	ELECT
					C808	1-130-777-00	FILM
					C809	1-128-560-11	ELECT
					C810	1-164-159-21	CERAMIC
					C811	1-130-493-00	MYLAR
					C812	1-130-493-00	MYLAR
					C814	1-162-294-31	CERAMIC
					C816	1-162-306-11	CERAMIC
					C841	1-126-925-11	ELECT
					C851	1-128-582-11	ELECT
					C852	1-162-286-21	CERAMIC
					C853	1-162-282-31	CERAMIC
					C854	1-126-967-11	ELECT
					C856	1-126-967-11	ELECT
					C857	1-128-560-11	ELECT
					C858	1-130-777-00	FILM
					C861	1-130-493-00	MYLAR
					C862	1-130-493-00	MYLAR
					C901	1-104-482-11	ELECT
					C901	1-117-750-11	ELECT
							(D390/D790/G5500/XB60)
							(XB33/XB50)

POWER AMP

TABLE SENSOR

TC-A SW

Ref. No.	Part No.	Description	Remarks		Ref. No.	Part No.	Description	Remarks		
C901	1-128-493-11	ELECT	4700uF	20%	71V (XB44)	R854	1-249-437-11	CARBON	47K	5% 1/4W (EXCEPT XB44)
C902	1-130-777-00	FILM	0.1uF	10%	100V	R854	1-249-438-11	CARBON	56K	5% 1/4W (XB44)
C951	1-104-482-11	ELECT	4700uF	20%	63V (D390/D790/G5500/XB60)	R855	1-260-107-11	CARBON	4.7K	5% 1/2W
C951	1-117-750-11	ELECT	3300uF	20%	63V (XB33/XB50)	R856	1-260-107-11	CARBON	4.7K	5% 1/2W
C951	1-128-493-11	ELECT	4700uF	20%	71V (XB44)	△R857	1-212-881-11	FUSIBLE	100	5% 1/4W F
C952	1-130-777-00	FILM	0.1uF	10%	100V < CONNECTOR >	△R858	1-220-893-11	METAL	0.22	10% 5W
						R859	1-260-076-11	CARBON	10	5% 1/2W
						R861	1-249-417-11	CARBON	1K	5% 1/4W F
						R862	1-249-431-11	CARBON	15K	5% 1/4W
						R863	1-249-441-11	CARBON	100K	5% 1/4W
CN801	1-778-981-11	CONNECTOR, BOARD TO BOARD 13P	*****							
		< DIODE >	1-659-058-13 TABLE SENSOR BOARD							

D801	8-719-991-33	DIODE 1SS133T-77	< IC >							
D841	8-719-991-33	DIODE 1SS133T-77	IC202 8-749-924-18 IC PHOTO INTERRUPTER RPI-1391							
D842	8-719-991-33	DIODE 1SS133T-77	< RESISTOR >							
D851	8-719-991-33	DIODE 1SS133T-77	R207 1-249-416-11 CARBON 820 5% 1/4W							
D901	8-719-510-68	DIODE D5SBA204101	*****							
		< IC >	* 1-664-012-11 TC-A SW BOARD							

IC801	8-749-921-68	IC STK4231MK2 (EXCEPT XB50)	< TRANSISTOR >							
IC801	8-749-922-65	IC STK4221MK2 (XB50)	Q801 8-729-140-84 TRANSISTOR 2SC1841TP-PAFAEA							
			< CONNECTOR >							
			* CN612 1-568-943-11 PIN, CONNECTOR 5P							
			< DIODE >							
R801	1-249-417-11	CARBON 1K 5% 1/4W F	R802 1-249-437-11 CARBON 47K 5% 1/4W							
R803	1-249-413-11	CARBON 470 5% 1/4W F (EXCEPT XB50)	D631 8-719-057-10 DIODE LNJ301MPUJAB (▷)							
R803	1-249-414-11	CARBON 560 5% 1/4W F (XB50)	D632 8-719-057-10 DIODE LNJ301MPUJAB (◁)							
R804	1-249-437-11	CARBON 47K 5% 1/4W (EXCEPT XB44)	< RESISTOR >							
R804	1-249-438-11	CARBON 56K 5% 1/4W (XB44)	R705 1-249-415-11 CARBON 680 5% 1/4W F							
R805	1-260-107-11	CARBON 4.7K 5% 1/2W	R706 1-249-416-11 CARBON 820 5% 1/4W F							
R806	1-260-107-11	CARBON 4.7K 5% 1/2W	R707 1-249-418-11 CARBON 1.2K 5% 1/4W F							
△R807	1-212-881-11	FUSIBLE 100 5% 1/4W F	R708 1-249-419-11 CARBON 1.5K 5% 1/4W F							
△R808	1-220-893-11	METAL 0.22 10% 5W	R709 1-249-421-11 CARBON 2.2K 5% 1/4W F							
R809	1-260-076-11	CARBON 10 5% 1/2W	< SWITCH >							
R811	1-249-417-11	CARBON 1K 5% 1/4W F	S641 1-554-303-21 SWITCH, TACTILE (▷)							
R812	1-249-431-11	CARBON 15K 5% 1/4W	S642 1-554-303-21 SWITCH, TACTILE (◁)							
R813	1-249-441-11	CARBON 100K 5% 1/4W	S643 1-554-303-21 SWITCH, TACTILE (■)							
R814	1-260-105-11	CARBON 3.3K 5% 1/2W	S644 1-554-303-21 SWITCH, TACTILE (◀)							
R816	1-260-105-11	CARBON 3.3K 5% 1/2W	S645 1-554-303-21 SWITCH, TACTILE (▶)							
△R820	1-202-972-61	FUSIBLE 1 5% 1/4W F	*****							
R841	1-249-426-11	CARBON 5.6K 5% 1/4W	S646 1-554-303-21 SWITCH, TACTILE (DOLBY NR)							
R842	1-247-889-00	CARBON 270K 5% 1/4W	S647 1-554-303-21 SWITCH, TACTILE (DIRECTION)							
R843	1-249-421-11	CARBON 2.2K 5% 1/4W F	*****							
R844	1-249-429-11	CARBON 10K 5% 1/4W								
R851	1-249-417-11	CARBON 1K 5% 1/4W F								
R852	1-249-437-11	CARBON 47K 5% 1/4W								
R853	1-249-413-11	CARBON 470 5% 1/4W F (EXCEPT XB50)								
R853	1-249-414-11	CARBON 560 5% 1/4W F (XB50)								

Note:
The components identified by mark ▲ or dotted line with mark ▲ are critical for safety.
Replace only with part number specified.

Note:
Les composants identifiés par une marque ▲ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	Part No.	Description			Remarks	Ref. No.	Part No.	Description			Remarks
*	1-664-013-11	TC-B SW BOARD	*****			C32	1-163-038-91	CERAMIC CHIP	0.1uF	25V	
		< DIODE >				C33	1-163-038-91	CERAMIC CHIP	0.1uF	25V	
D635	8-719-057-10	DIODE LNJ301MPUJAB (◀)				C34	1-163-229-11	CERAMIC CHIP	12PF	5%	50V
D636	8-719-057-10	DIODE LNJ301MPUJAB (▷)				C35	1-163-038-91	CERAMIC CHIP	0.1uF	25V	
D637	8-719-058-17	DIODE LNG401NPYJA (II)				C36	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V
D638	8-719-057-09	DIODE LNJ801LPDJA (● REC)				C37	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V
		< RESISTOR >				C39	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V
R715	1-249-421-11	CARBON	2.2K	5%	1/4W F	C40	1-126-967-11	ELECT	47uF	20%	16V
R716	1-247-843-11	CARBON	3.3K	5%	1/4W	C41	1-163-031-11	CERAMIC CHIP	0.01uF	50V	
R717	1-249-425-11	CARBON	4.7K	5%	1/4W F	C42	1-163-038-91	CERAMIC CHIP	0.1uF	25V	
R718	1-249-427-11	CARBON	6.8K	5%	1/4W F	C43	1-163-031-91	CERAMIC CHIP	0.01uF	50V	
R719	1-249-429-11	CARBON	10K	5%	1/4W	C44	1-163-038-91	CERAMIC CHIP	0.1uF	25V	
R720	1-249-432-11	CARBON	18K	5%	1/4W	C45	1-163-077-00	CERAMIC CHIP	0.1uF	50V	
R721	1-249-436-11	CARBON	39K	5%	1/4W	C46	1-126-967-11	ELECT	47uF	20%	16V
R722	1-247-881-00	CARBON	120K	5%	1/4W	C47	1-126-301-11	ELECT	1.0uF	20%	50V
R724	1-247-807-31	CARBON	100	5%	1/4W	C48	1-163-059-00	CERAMIC CHIP	0.01uF	50V	
R725	1-247-807-31	CARBON	100	5%	1/4W	C49	1-126-964-11	ELECT	10uF	20%	50V
R727	1-247-807-31	CARBON	100	5%	1/4W	C50	1-126-960-11	ELECT	1.0uF	20%	50V
R728	1-247-807-31	CARBON	100	5%	1/4W	C51	1-126-959-11	ELECT	0.47uF	20%	50V
		< SWITCH >				C52	1-126-960-11	ELECT	1.0uF	20%	50V
S651	1-554-303-21	SWITCH, TACTILE (▷)				C53	1-126-964-11	ELECT	10uF	20%	50V
S652	1-554-303-21	SWITCH, TACTILE (◀)				C54	1-104-396-11	ELECT	10uF	20%	16V
S653	1-554-303-21	SWITCH, TACTILE (▶▶)				C55	1-104-396-11	ELECT	10uF	20%	16V
S654	1-554-303-21	SWITCH, TACTILE (◀◀)				C56	1-104-396-11	ELECT	10uF	20%	16V
S655	1-554-303-21	SWITCH, TACTILE (■)				C57	1-163-017-00	CERAMIC CHIP	0.0047uF	10%	50V
S656	1-554-303-21	SWITCH, TACTILE (II)				C58	1-163-017-00	CERAMIC CHIP	0.0047uF	10%	50V
S657	1-554-303-21	SWITCH, TACTILE (● REC)				C59	1-163-989-11	CERAMIC CHIP	33000PF	10%	25V
S658	1-554-303-21	SWITCH, TACTILE (H SPEED DUB)				C60	1-163-989-11	CERAMIC CHIP	33000PF	10%	25V
S659	1-554-303-21	SWITCH, TACTILE (CD SYNC)				C61	1-126-301-11	ELECT	1.0uF	20%	50V
		*****				C62	1-163-031-11	CERAMIC CHIP	0.01uF	50V	
*	A-4303-588-A	TCB BOARD, COMPLETE (EE, CIS)	*****			C63	1-163-139-00	CERAMIC CHIP	820PF	5%	50V
		< CAPACITOR >				C65	1-126-967-11	ELECT	47uF	20%	16V
C1	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V	C66	1-163-031-11	CERAMIC CHIP	0.01uF	50V	
C2	1-126-967-11	ELECT	47uF	20%	16V	C67	1-126-162-11	ELECT	3.3uF	20%	50V
C3	1-163-038-91	CERAMIC CHIP	0.1uF		25V	C68	1-163-031-11	CERAMIC	0.01uF	50V	
C5	1-163-031-11	CERAMIC CHIP	0.01uF		50V	C69	1-126-967-11	ELECT	47uF	20%	16V
C6	1-163-038-91	CERAMIC CHIP	0.1uF		25V	C71	1-162-306-11	CERAMIC	0.01uF	30%	16V
C7	1-101-004-00	CERAMIC	0.01uF		50V	C72	1-126-967-11	ELECT	47uF	20%	16V
C8	1-163-031-11	CERAMIC CHIP	0.01uF		50V	C73	1-163-031-11	CERAMIC CHIP	0.01uF		50V
C9	1-163-031-11	CERAMIC CHIP	0.01uF		50V	C74	1-163-031-11	CERAMIC CHIP	0.01uF		50V
C10	1-162-306-11	CERAMIC CHIP	0.01uF	30%	16V	C1701	1-162-294-31	CERAMIC CHIP	1000PF	10%	50V
C16	1-163-038-91	CERAMIC CHIP	0.1uF		25V	C1702	1-130-014-00	FILM	470PF	5%	50V
C19	1-163-249-11	CERAMIC CHIP	82PF	5%	50V	C1703	1-126-959-11	ELECT	0.47uF	20%	50V
C21	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V	C1704	1-126-959-11	ELECT	0.47uF	20%	50V
C22	1-163-031-11	CERAMIC CHIP	0.01uF		50V	C1705	1-163-035-00	CERAMIC CHIP	0.047uF		50V
C23	1-163-235-11	CERAMIC CHIP	22PF	5%	50V	C1706	1-126-960-11	ELECT	1.0uF	20%	50V
C24	1-163-239-11	CERAMIC CHIP	33PF	5%	50V	C1707	1-163-129-00	CERAMIC CHIP	330PF	5%	50V
C26	1-126-967-11	ELECT	47uF	20%	16V	C1710	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V
C28	1-126-967-11	ELECT	47uF	20%	16V	C1711	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V
C29	1-162-306-11	CERAMIC	0.01uF	30%	16V	C1712	1-130-736-11	FILM	0.01uF	5%	50V
C30	1-126-961-11	ELECT	2.2uF	20%	50V	C1713	1-130-736-11	FILM	0.01uF	5%	50V
C31	1-163-031-11	CERAMIC CHIP	0.01uF		50V	C1714	1-126-960-11	ELECT	1.0uF	20%	50V
		< CAPACITOR >				C1715	1-126-960-11	ELECT	1.0uF	20%	50V
						C1716	1-126-960-11	ELECT	1.0uF	20%	50V
						C1719	1-126-967-11	ELECT	47uF	20%	16V
						C1720	1-163-031-11	CERAMIC CHIP	0.01uF		50V
						C1723	1-163-031-11	CERAMIC CHIP	0.01uF		50V
						C1724	1-163-031-11	CERAMIC CHIP	0.01uF		50V
						C1725	1-126-967-11	ELECT	47uF	20%	16V
						C1726	1-126-960-11	ELECT	1.0uF	20%	50V

Ref. No.	Part No.	Description			Remarks	Ref. No.	Part No.	Description			Remarks
C1727	1-126-960-11	ELECT	1.0uF	20%	50V			< COIL >			
C1728	1-126-966-11	ELECT	33uF	20%	16V			L3	1-410-521-11	MICRO INDUCTOR	100uH
		< FILTER >						L41	1-407-500-00	MICRO INDUCTOR	4.7mH
CF1	1-567-389-11	FILTER, CERAMIC						L1701	1-409-497-11	COIL (FILTER)	
CF3	1-567-389-11	FILTER, CERAMIC								< FILTER >	
		< CONNECTOR >						LPF41	1-239-845-11	FILTER, LOW PASS	
* CN1	1-568-834-11	SOCKET, CONNECTOR 15P						LPF42	1-239-845-11	FILTER, LOW PASS	
		< TRIMMER >								< TRANSISTOR >	
CT1701	1-141-444-11	CAP, CERAMIC TRIMMER 50PF						Q1	8-729-201-27	TRANSISTOR 2SC2715Y	
CT1701	1-141-569-11	CAP, ADJ 50PF						Q2	8-729-201-27	TRANSISTOR 2SC2715Y	
		< DIODE >						Q3	8-729-201-27	TRANSISTOR 2SC2715Y	
D21	8-719-976-99	DIODE DTZ5.1B						Q4	8-729-201-27	TRANSISTOR 2SC2715Y	
D41	8-719-016-74	DIODE 1SS352						Q5	8-729-216-22	TRANSISTOR MUN2111	
D42	8-719-016-74	DIODE 1SS352						Q9	8-729-216-22	TRANSISTOR 2SA812-M5M6	
D43	8-719-016-74	DIODE 1SS352						Q11	8-729-421-22	TRANSISTOR MUN2211	
D1701	8-719-016-74	DIODE 1SS352						Q12	8-729-421-22	TRANSISTOR MUN2211	
D1702	8-719-016-74	DIODE 1SS352						Q13	8-729-421-22	TRANSISTOR MUN2211	
D1703	8-719-991-33	DIODE 1SS133T						Q14	8-729-421-22	TRANSISTOR MUN2211	
D1704	8-719-016-74	DIODE 1SS352						Q1701	8-729-424-08	TRANSISTOR MUN2111	
		< FRONTEND >						Q1702	8-729-027-43	TRANSISTOR RT1N141C	
								Q1703	8-729-421-22	TRANSISTOR MUN2211	
		< RESISTOR >									
FE1	1-693-335-11	FRONT END (3 GANG)						R1	1-249-401-11	CARBON	47
FE2	1-233-514-11	ENCAPSULATED COMPONENT						R2	1-216-037-00	METAL CHIP	330
		< IC >						R3	1-216-037-00	METAL CHIP	330
IC21	8-759-288-54	IC LC72130						R5	1-216-037-00	METAL CHIP	330
IC41	8-759-495-82	IC LA1838						R6	1-216-081-00	METAL CHIP	22K
IC1701	8-759-063-04	IC IR3R42						R7	1-216-037-00	METAL CHIP	330
IC1702	8-759-140-53	IC uPD4053BC						R8	1-216-037-00	METAL CHIP	330
		< IFT >						R9	1-216-081-00	METAL CHIP	22K
IFT41	1-409-636-11	TRANSFORMER, IF (CERAMIC FILTER)						R10	1-216-037-00	METAL CHIP	330
		< JUMPER RESISTOR >						R11	1-216-081-00	METAL CHIP	22K
JR2	1-216-295-91	METAL CHIP	0	5%	1/10W			R12	1-216-037-00	METAL CHIP	330
JR6	1-216-295-91	METAL CHIP	0	5%	1/10W			R13	1-216-037-00	METAL CHIP	330
JR8	1-216-295-91	METAL CHIP	0	5%	1/10W			R14	1-216-081-00	METAL CHIP	22K
JR9	1-216-295-91	METAL CHIP	0	5%	1/10W			R18	1-216-073-00	METAL CHIP	10K
JR12	1-216-296-91	METAL CHIP	0	5%	1/8W			R19	1-216-073-00	METAL CHIP	10K
JR46	1-216-295-91	METAL CHIP	0	5%	1/8W			R21	1-249-417-11	CARBON	1.0K
JR47	1-216-295-91	METAL CHIP	0	5%	1/10W			R22	1-249-417-11	CARBON	1.0K
JR48	1-216-295-91	METAL CHIP	0	5%	1/10W			R23	1-249-417-11	CARBON	1.0K
JR49	1-216-296-91	METAL CHIP	0	5%	1/8W			R24	1-247-807-31	CARBON	100
JR51	1-216-295-91	METAL CHIP	0	5%	1/10W			R25	1-249-417-11	CARBON	1.0K
JR52	1-216-295-91	METAL CHIP	0	5%	1/10W			R26	1-249-437-11	CARBON	47K
JR53	1-216-296-91	METAL CHIP	0	5%	1/8W			R27	1-249-429-11	CARBON	10K
JR54	1-216-295-91	METAL CHIP	0	5%	1/10W			R28	1-249-417-11	CARBON	1.0K
JR1701	1-216-295-91	METAL CHIP	0	5%	1/10W			R29	1-216-061-00	METAL CHIP	3.3K
JR1702	1-216-295-91	METAL CHIP	0	5%	1/10W			R30	1-216-186-00	METAL CHIP	330
JR1703	1-216-295-91	METAL CHIP	0	5%	1/10W			R31	1-216-025-91	METAL CHIP	100
JR1704	1-216-295-91	METAL CHIP	0	5%	1/10W			R32	1-249-425-11	CARBON	4.7K
JR1705	1-216-295-91	METAL CHIP	0	5%	1/10W			R33	1-249-425-11	CARBON	4.7K
		< JUMPER RESISTOR >						R34	1-216-065-00	METAL CHIP	4.7K
								R35	1-216-214-00	METAL CHIP	4.7K

Ref. No.	Part No.	Description	Remarks		Ref. No.	Part No.	Description	Remarks			
R36	1-216-025-91	METAL CHIP	100	5%	1/10W	< VIBRATOR >					
R37	1-216-073-00	METAL CHIP	10K	5%	1/10W						
R38	1-216-089-91	METAL CHIP	47K	5%	1/10W	X21	1-760-549-31	VIBRATOR, CRYSTAL (4.5MHz)			
R39	1-249-429-11	CARBON	10K	5%	1/4W	X21	1-760-549-11	VIBRATOR, CRYSTAL (4.5MHz)			
R41	1-216-013-00	METAL CHIP	33	5%	1/10W	X41	1-767-825-21	FILTER, CERAMIC (10.7MHz)			
						X42	1-527-981-00	FILTER, CERAMIC (450kHz)			
R42	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	*****		*****			
R43	1-216-037-00	METAL CHIP	330	5%	1/10W	* A-4303-590-A TCB BOARD, COMPLETE (AEP, UK)	*****				
R44	1-216-001-00	METAL CHIP	10	5%	1/10W		*****				
R45	1-247-843-11	CARBON	3.3K	5%	1/4W F		*****				
R46	1-216-065-00	METAL CHIP	4.7K	5%	1/10W		*****				
							< CAPACITOR >				
R47	1-216-097-91	METAL CHIP	100K	5%	1/10W	C1	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V
R48	1-249-417-11	CARBON	1.0K	5%	1/4W F	C2	1-126-967-11	ELECT	47uF	20%	16V
R49	1-216-049-91	METAL CHIP	1.0K	5%	1/10W	C3	1-163-038-91	CERAMIC CHIP	0.1uF		25V
R50	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	C5	1-163-031-11	CERAMIC CHIP	0.01uF		50V
R51	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	C6	1-163-038-91	CERAMIC CHIP	0.1uF		25V
R52	1-216-061-00	METAL CHIP	3.3K	5%	1/10W	C8	1-163-031-11	CERAMIC CHIP	0.01uF		50V
R53	1-216-061-00	METAL CHIP	3.3K	5%	1/4W	C9	1-163-031-11	CERAMIC CHIP	0.01uF		50V
R54	1-216-073-00	METAL CHIP	10K	5%	1/10W	C10	1-163-031-11	CERAMIC CHIP	0.01uF		50V
R55	1-216-061-00	METAL CHIP	3.3K	5%	1/10W	C16	1-163-038-91	CERAMIC CHIP	0.1uF		25V
R57	1-216-162-00	METAL CHIP	33	5%	1/8W	C19	1-163-249-11	CERAMIC CHIP	82PF	5%	50V
R58	1-216-013-00	METAL CHIP	33	5%	1/10W	C21	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V
R91	1-216-295-91	METAL CHIP	0	5%	1/10W	C22	1-163-031-11	CERAMIC CHIP	0.01uF		50V
R92	1-216-073-00	METAL CHIP	10K	5%	1/10W	C23	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
R1701	1-216-081-00	METAL CHIP	22K	5%	1/10W	C24	1-163-239-11	CERAMIC CHIP	33PF	5%	50V
R1702	1-216-085-00	METAL CHIP	33K	5%	1/10W	C26	1-126-967-11	ELECT	47uF	20%	16V
R1703	1-216-069-00	METAL CHIP	6.8K	5%	1/10W	C28	1-126-967-11	ELECT	47uF	20%	16V
R1704	1-216-076-00	METAL CHIP	13K	5%	1/10W	C29	1-162-306-11	CERAMIC	0.01uF	30%	16V
R1705	1-216-049-91	METAL CHIP	1.0K	5%	1/10W	C30	1-126-961-11	ELECT	2.2uF	20%	50V
R1706	1-216-049-91	METAL CHIP	1.0K	5%	1/10W	C31	1-163-031-11	CERAMIC CHIP	0.01uF		50V
R1707	1-216-097-91	METAL CHIP	100K	5%	1/10W	C32	1-163-038-91	CERAMIC CHIP	0.1uF		25V
R1708	1-216-095-00	METAL CHIP	82K	5%	1/10W	C33	1-163-038-91	CERAMIC CHIP	0.1uF		25V
R1709	1-216-089-91	METAL CHIP	47K	5%	1/10W	C34	1-163-229-11	CERAMIC CHIP	12PF	5%	50V
R1710	1-216-073-00	METAL CHIP	10K	5%	1/10W	C35	1-163-038-91	CERAMIC CHIP	0.1uF		25V
R1711	1-249-429-11	CARBON	10K	5%	1/4W	C36	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V
R1714	1-216-067-00	METAL CHIP	5.6K	5%	1/10W	C37	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V
R1715	1-216-067-00	METAL CHIP	5.6K	5%	1/10W	C39	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V
R1716	1-216-097-91	METAL CHIP	100K	5%	1/10W	C40	1-126-967-11	ELECT	47uF	20%	16V
R1717	1-216-097-91	METAL CHIP	100K	5%	1/10W	C41	1-163-031-11	CERAMIC CHIP	0.01uF		50V
R1718	1-249-429-11	CARBON	10K	5%	1/4W	C42	1-163-038-91	CERAMIC CHIP	0.1uF		25V
R1719	1-216-097-91	METAL CHIP	100K	5%	1/10W	C43	1-163-031-11	CERAMIC CHIP	0.01uF		50V
R1720	1-249-434-11	CARBON	27K	5%	1/4W	C44	1-163-038-91	CERAMIC CHIP	0.1uF		25V
R1721	1-216-073-00	METAL CHIP	10K	5%	1/10W	C45	1-163-077-00	CERAMIC CHIP	0.1uF		50V
< VARIABLE RESISTOR >											
RV41	1-238-600-11	RES, ADJ, CARBON	10K			C46	1-126-967-11	ELECT	47uF	20%	16V
RV42	1-238-599-11	RES, ADJ, CARBON	4.7K			C47	1-126-301-11	ELECT	1.0uF	20%	50V
RV1701	1-238-600-11	RES, ADJ, CARBON	10K			C48	1-163-059-00	CERAMIC CHIP	0.01uF		50V
RV1702	1-238-599-11	RES, ADJ, CARBON	4.7K			C49	1-126-964-11	ELECT	10uF	20%	50V
< TERMINAL >											
TM1	1-537-488-11	TERMINAL BOARD (ANT) (ANTENNA)				C50	1-126-960-11	ELECT	1.0uF	20%	50V
< TEST PIN >											
TP1701	1-536-354-00	PIN, POST				C51	1-126-959-11	ELECT	0.47uF	20%	50V
TP1702	1-536-354-00	PIN, POST				C52	1-126-960-11	ELECT	1.0uF	20%	50V
						C53	1-126-964-11	ELECT	10uF	20%	50V
						C54	1-104-396-11	ELECT	10uF	20%	16V
						C55	1-104-396-11	ELECT	10uF	20%	16V
						C56	1-104-396-11	ELECT	10uF	20%	16V
						C57	1-163-017-00	CERAMIC CHIP	0.0047uF	10%	50V
						C58	1-163-017-00	CERAMIC CHIP	0.0047uF	10%	50V

Ref. No.	Part No.	Description			Remarks	Ref. No.	Part No.	Description			Remarks	
C59	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V			< JUMPER RESISTOR >				
C60	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V		JR2	1-216-295-91	METAL CHIP	0	5%	
C61	1-126-301-11	ELECT	1uF	20%	50V		JR6	1-216-295-91	METAL CHIP	0	5%	
C62	1-163-031-11	CERAMIC CHIP	0.01uF		50V		JR8	1-216-295-91	METAL CHIP	0	5%	
C63	1-163-129-00	CERAMIC CHIP	330PF	5%	50V		JR9	1-216-295-91	METAL CHIP	0	5%	
C65	1-126-967-11	ELECT	47uF	20%	16V		JR12	1-216-296-91	METAL CHIP	0	5%	
C66	1-163-031-11	CERAMIC CHIP	0.01uF		50V		JR46	1-216-296-91	METAL CHIP	0	5%	
C67	1-126-16211	ELECT	3.3uF	20%	50V		JR47	1-216-295-11	METAL CHIP	0	5%	
C68	1-163-031-11	CERAMIC	0.01uF		50V		JR48	1-216-295-11	METAL CHIP	0	5%	
C69	1-126-967-11	ELECT	47uF	20%	16V		JR49	1-216-296-11	METAL CHIP	0	5%	
C71	1-162-306-11	CERAMIC	0.01uF	30%	16V		JR51	1-216-295-11	METAL CHIP	0	5%	
C72	1-126-967-11	ELECT	47uF	20%	16V		JR52	1-216-295-11	METAL CHIP	0	5%	
C73	1-163-031-11	CERAMIC	0.01uF		50V		JR53	1-216-296-11	METAL CHIP	0	5%	
C74	1-163-031-11	CERAMIC	0.01uF		50V		JR54	1-216-295-11	METAL CHIP	0	5%	
C120	1-163-105-00	CERAMIC CHIP	33PF	5%	50V			< COIL >				
C1751	1-164-159-21	CERAMIC	0.1uF		50V		L2	1-414-142-11	MICRO INDUCTOR		1uH	
C1752	1-126-967-11	ELECT	47uF	20%	16V		L3	1-410-521-11	MICRO INDUCTOR		100uH	
C1753	1-126-964-11	ELECT	10uF	20%	50V		L4	1-410-515-11	INDUCTOR		33uH	
C1754	1-162-291-31	CERAMIC	560PF	10%	50V		L41	1-407-500-00	MICRO INDUCTOR		4.7mH	
C1755	1-126-964-11	ELECT	10uF	20%	50V		L1751	1-410-521-11	MICRO INDUCTOR		100uH	
C1756	1-126-961-11	ELECT	2.2uF	20%	50V			< FILTER >				
C1757	1-162-288-31	CERAMIC	330PF	10%	50V		LPF41	1-239-845-11	FILTER, LOW PASS			
C1758	1-163-031-11	CERAMIC CHIP	0.01uF		50V		LPF42	1-239-845-11	FILTER, LOW PASS			
C1759	1-163-135-00	CERAMIC CHIP	560PF	5%	50V			< TRANSISTOR >				
C1760	1-163-031-11	CERAMIC CHIP	0.01uF		50V							
C1761	1-163-245-11	CERAMIC CHIP	56PF	5%	50V		Q1	8-729-201-27	TRANSISTOR	2SC2715Y-TE85L		
C1762	1-163-245-11	CERAMIC CHIP	56PF	5%	50V		Q2	8-729-201-27	TRANSISTOR	2SC2715Y-TE85L		
C1763	1-126-961-11	ELECT	2.2uF	20%	50V		Q3	8-729-201-27	TRANSISTOR	2SC2715Y-TE85L		
		< FILTER >					Q4	8-729-201-27	TRANSISTOR	2SC2715Y-TE85L		
		< CONNECTOR >					Q5	8-729-424-08	TRANSISTOR	MUN2111		
CF1	1-579-374-71	FILTER, CERAMIC										
CF2	1-760-393-11	FILTER, CERAMIC										
CF3	1-760-393-11	FILTER, CERAMIC										
* CN1	1-568-834-11	SOCKET, CONNECTOR 15P										
		< DIODE >							< RESISTOR >			
D21	8-719-976-99	DIODE	UDZ-TE-17-5.1B					R1	1-249-401-11	CARBON	47	5%
D41	8-719-016-74	DIODE	ISS352-TPH3					R2	1-216-037-00	METAL CHIP	330	5%
D42	8-719-991-33	DIODE	ISS133T-77					R3	1-216-037-00	METAL CHIP	330	5%
D1751	8-719-016-74	DIODE	ISS352-TPH3					R5	1-216-037-00	METAL CHIP	330	5%
		< FRONT-END >						R6	1-216-081-00	METAL CHIP	22K	5%
FE1	1-693-357-11	FRONT END (4 GANG)										
FE2	1-233-514-11	ENCAPSULATED COMPONENT						R7	1-216-037-00	METAL CHIP	330	5%
		< IC >						R8	1-216-037-00	METAL CHIP	330	5%
		< IFT >						R9	1-216-081-00	METAL CHIP	22K	5%
IC21	8-759-288-54	IC	LC72130					R10	1-216-037-00	METAL CHIP	330	5%
IC41	8-759-495-82	IC	LA1838					R11	1-216-081-00	METAL CHIP	22K	5%
IC1751	8-759-634-51	IC	M5218AP									
IC1752	8-759-450-86	IC	BU1922					R12	1-216-037-00	METAL CHIP	330	5%
		< IFT >						R13	1-216-037-00	METAL CHIP	330	5%
IFT41	1-409-636-11	TRANSFORMER, IF (CERAMIC FILTER)						R14	1-216-081-00	METAL CHIP	22K	5%
		< IFT >						R18	1-216-073-00	METAL CHIP	10K	5%
		< IFT >						R19	1-216-073-00	METAL CHIP	10K	5%
		< IFT >										
		< IFT >						R21	1-216-049-91	METAL CHIP	1.0K	5%
		< IFT >						R22	1-216-049-91	METAL CHIP	1.0K	5%
		< IFT >						R23	1-216-049-91	METAL CHIP	1.0K	5%
		< IFT >						R24	1-216-025-91	METAL CHIP	100	5%
		< IFT >						R25	1-249-417-11	CARBON	1K	5%
		< IFT >										

Ref. No.	Part No.	Description	Remarks			Ref. No.	Part No.	Description	Remarks		
R26	1-249-437-11	CARBON	47K	5%	1/4W		1-664-014-11	TRANS BOARD	*****		
R27	1-249-429-11	CARBON	10K	5%	1/4W				(D390: US/D790: US/G5500/XB50/XB60)		
R28	1-249-417-11	CARBON	1K	5%	1/4W F				*****		
R29	1-216-061-00	METAL CHIP	3.3K	5%	1/10W	*	1-668-169-11	TRANS BOARD	*****		
R30	1-216-186-00	METAL CHIP	330	5%	1/8W				(D390: CND/D790: CND/XB33/XB44)		
R31	1-216-025-91	METAL CHIP	100	5%	1/10W				< CAPACITOR >		
R32	1-249-425-11	CARBON	4.7K	5%	1/4W F		1-533-233-21	HOLDER, FUSE (EXCEPT XB33/XB44)			
R33	1-249-425-11	CARBON	4.7K	5%	1/4W F		1-533-399-11	HOLDER, FUSE (XB33/XB44)			
R34	1-249-425-11	CARBON	4.7K	5%	1/10W		1-533-903-21	HOLDER, FUSE (EXCEPT XB33/XB44)			
R35	1-216-214-00	METAL CHIP	4.7K	5%	1/8W				< CONNECTOR >		
R36	1-216-025-91	METAL CHIP	100	5%	1/10W		C903	1-164-159-21	CERAMIC	0.1uF	50V
R37	1-216-073-00	METAL CHIP	10K	5%	1/10W				(XB50/XB60)		
R38	1-216-089-91	METAL CHIP	47K	5%	1/10W				< CONNECTOR >		
R39	1-249-429-11	CARBON	10K	5%	1/4W				< FUSE >		
R41	1-216-013-00	METAL CHIP	33	5%	1/10W				< VARIABLE RESISTOR >		
R42	1-216-065-00	METAL CHIP	4.7K	5%	1/10W				< RESISTOR >		
R43	1-216-037-00	METAL CHIP	330	5%	1/10W				< TERMINAL >		
R44	1-216-001-00	METAL CHIP	10	5%	1/10W				< VIBRATOR >		
R45	1-247-843-11	CARBON	3.3K	5%	1/4W F				< FILTER >		
R46	1-216-065-00	METAL CHIP	4.7K	5%	1/10W				< CERAMIC >		
R47	1-216-097-91	METAL CHIP	100K	5%	1/10W				< PLUG >		
R48	1-249-417-11	CARBON	1K	5%	1/4W F				< CORD >		
R49	1-216-049-91	METAL CHIP	1.0K	5%	1/10W				< PIN >		
R50	1-216-065-00	METAL CHIP	4.7K	5%	1/10W				< PLUG >		
R51	1-216-065-00	METAL CHIP	4.7K	5%	1/10W				< CERAMIC >		
R52	1-216-061-00	METAL CHIP	3.3K	5%	1/10W				< PLUG >		
R53	1-216-061-00	METAL CHIP	3.3K	5%	1/10W				< CORD >		
R54	1-216-073-00	METAL CHIP	10K	5%	1/10W				< PIN >		
R55	1-216-061-00	METAL CHIP	3.3K	5%	1/10W				< PLUG >		
R57	1-216-162-00	METAL CHIP	33	5%	1/8W				< CORD >		
R58	1-216-013-00	METAL CHIP	33	5%	1/10W				< FUSE >		
R91	1-216-295-91	METAL CHIP	0	5%	1/10W				< CORD >		
R92	1-216-073-00	METAL CHIP	10K	5%	1/10W				< PLUG >		
R1751	1-247-807-31	CARBON	100	5%	1/4W				< CORD >		
R1752	1-216-073-00	METAL CHIP	10K	5%	1/10W				< PIN >		
R1753	1-216-067-00	METAL CHIP	5.6K	5%	1/10W				< PLUG >		
R1754	1-216-097-91	METAL CHIP	100K	5%	1/10W				< CORD >		
R1755	1-216-097-91	METAL CHIP	100K	5%	1/10W				< PLUG >		
R1756	1-249-401-11	CARBON	47	5%	1/4W F				< CORD >		
R1757	1-216-295-91	METAL CHIP	0	5%	1/10W				< PLUG >		

RV41	1-238-600-11	RES, ADJ, CARBON 10K					▲ R901	1-219-119-81	FUSIBLE	0.1	5%
RV42	1-238-600-11	RES, ADJ, CARBON 10K								1/4W F	

< TERMINAL >											
TM1	1-537-488-11	TERMINAL BOARD (ANT) (ANTENNA)					▲ R901	1-219-120-11	FUSIBLE	0.15	5%

< VIBRATOR >											
X21	1-760-549-11	VIBRATOR, CRYSTAL (4.5MHz)					▲ R902	1-219-119-81	FUSIBLE	0.1	5%
X41	1-767-825-21	FILTER, CERAMIC (10.7MHz)								1/4W F	
X42	1-527-981-00	FILTER, CERAMIC (450KHz)					▲ R902	1-219-120-11	FUSIBLE	0.15	5%
X1751	1-579-900-21	VIBRATOR, CRYSTAL (4.332MHz)								1/4W F	

Note:
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Replace only with part number specified.

Note:
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Ne les remplacer que par une pièce portant le numéro spécifié.

TRANS

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
< SWITCH >							
S901	1-762-753-11	SWITCH, VOLTAGE SELECTION (VOLTAGE SELECTOR) (XB33: E, AR/XB44: E, AR)	*****			ACCESSORIES & PACKING MATERIALS	*****

		MISCELLANEOUS	*****				
5	1-233-544-11	ENCAPSULATED COMPONENT (D390/D790/G5500)			1-475-115-11	COMMANDER, STANDARD (RM-SD70)	(made in Indonesia: AEP)
5	1-233-545-11	ENCAPSULATED COMPONENT (XB33/XB44)			1-475-115-31	COMMANDER, STANDARD (RM-SD70)	(made in Malaysia: AEP)
6	1-769-974-11	WIRE (FLAT TYPE) (13 CORE) (EXCEPT XB50/XB60)			1-501-374-11	ANTENNA, LOOP	
6	1-773-006-11	WIRE (FLAT TYPE) (15 CORE) (XB50/XB60)			1-501-659-41	ANTENNA (FM)(EXCEPT XB50/XB60)	
7	1-698-792-11	FAN, DC (XB44)			1-501-804-11	ANTENNA (FM)(XB50/XB60)	
58	1-773-161-11	WIRE (FLAT TYPE) (21 CORE)			1-775-512-21	CODE, SPEAKER CONNECTION	
59	1-769-949-11	WIRE (FLAT TYPE) (11 CORE)			3-862-180-11	MANUAL, INSTRUCTION	(made in Malaysia: except AEP) (ENGLISH)
120	1-773-051-11	WIRE (FLAT TYPE) (17 CORE)			3-862-180-22	MANUAL, INSTRUCTION (Canadian) (FRENCE)	
156	1-777-868-11	WIRE (FLAT TYPE) (19 CORE)			3-862-180-31	MANUAL, INSTRUCTION (E, AR, MX) (FRENCE, SPANISH)	
△ 159	1-569-008-11	ADAPTOR, CONVERSION 2P (AR)			3-862-180-51	MANUAL, INSTRUCTION (made in Malaysia: AEP) (GERMAN)	
△ 159	1-770-019-11	ADAPTOR, CONVERSION PLUG 3P (UK)			3-862-180-61	MANUAL, INSTRUCTION (made in Malaysia: AEP) (DUTCH, SWEDISH, ITALIAN)	
△ CNP901	1-558-943-51	CORD, POWER (E, MX)			3-862-180-71	MANUAL, INSTRUCTION (made in Malaysia: AEP) (FRENCE, SPANISH, PORTUGUESE)	
△ CNP901	1-575-042-21	CORD, POWER (US, CND)			3-862-180-81	MANUAL, INSTRUCTION (EE, CIS) (RUSSIAN, POLISH)	
△ CNP901	1-575-651-21	CORD, POWER (AEP, EE, AR, CIS, SAF, UK)			3-862-181-11	MANUAL, INSTRUCTION (made in Indonesia: AEP) (ENGLISH)	
△ CNP901	1-696-845-11	CORD, POWER (AUS)			3-862-181-21	MANUAL, INSTRUCTION (made in Indonesia: AEP) (FRENCH, SPANISH, PORTUGUESE)	
HP101	1-500-093-11	HEAD, MAGNETIC (PLAYBACK) (DECKA)			4-991-151-01	COVER, BATTERY (for RM-SD70)	
HRPE1011-500-094-11		HEAD, MAGNETIC (REC/PB/ERASE) (DECK B)	*****				
M1	X-3371-223-1	MOTOR ASSY, CAPSTAN	*****				
M2	A-2004-410-A	MOTOR ASSY, DC (TRIGGER)	*****				
M101	X-4917-523-4	MOTOR ASSY (SPINDLE)					
M102	X-4917-504-1	MOTOR ASSY (SLED)					
M201	A-4660-977-A	MOTOR ASSY (TABLE)					
△ T901	1-431-045-11	TRANSFORMER, POWER (D390: US/G5500)	*****				
△ T901	1-431-046-11	TRANSFORMER, POWER (D790: US)	*****				
△ T901	1-431-634-11	TRANSFORMER, POWER (XB50)		#1	7-685-646-79	SCREW +BVTP 3 × 8 TYPE2 N-S	
△ T901	1-431-635-11	TRANSFORMER, POWER (XB33)		#2	7-685-871-01	SCREW +BVTT 3 × 6 (S)	
△ T901	1-431-636-11	TRANSFORMER, POWER (XB60)		#3	7-685-872-09	SCREW +BVTT 3 × 8 (S)	
△ T901	1-431-637-11	TRANSFORMER, POWER (XB44)		#4	7-685-650-79	SCREW +BVTP 3 × 16 TYPE2 N-S	
△ T901	1-431-733-11	TRANSFORMER, POWER (D390: CND/D790: CND)	*****	#5	7-685-862-09	SCREW +BVTT 2.6 × 6 (S)	
				#6	7-685-131-19	SCREW +BTP 2.6 × 4 TYPE2 N-S	
				#7	7-685-533-19	SCREW +BTP 2.6 × 6 TYPE2 N-S	
				#8	7-621-775-10	SCREW +B 2.6 × 4	
				#9	7-685-534-19	SCREW +BTP 2.6 × 8 TYPE2 N-S	
				#10	7-623-921-01	RING, RETAINING, CAPSTAN	
				#11	7-621-775-00	SCREW +B 2.6 × 3	
				#12	7-621-255-15	SCREW +P 2 × 3	

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